

PART 70 OPERATING PERMIT OFFICE OF AIR MANAGEMENT

**United States Gypsum Company
3501 Canal Street
East Chicago, Indiana 46312**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T089-7532-00333	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Management	Issuance Date:

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary gypsum wallboard and gypsum products manufacturing plant.

Responsible Official: Jay L. King, Plant Manager
Source Address: 301 Riley Road, East Chicago, Indiana 46312
Mailing Address: 301 Riley Road, East Chicago, Indiana 46312
SIC Code: 3275
County Location: Lake
County Status: Nonattainment for ozone, PM₁₀ and SO₂
Attainment area for all other criteria pollutants
Source Status: Part 70 Permit Program
Major Source, under PSD and Emission Offset Rules;

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

Raw material handling and storage, consisting of the following equipment:

- (a) One (1) pneumatic rail car unloading facility, with a maximum throughput of 24,000 pounds per hour, used for limestone, hydrocal, and mica, with particulate matter emissions controlled by one (1) baghouse, identified as JVH10, and exhausting through one (1) stack, identified as J10.
- (b) One (1) pneumatic truck unloading facility, with a maximum throughput of 22,000 pounds per hour, used for perlite, with particulate matter emissions controlled by one (1) baghouse, identified as JBH16, and exhausting through one (1) stack, identified as J16.
- (c) One (1) limestone storage silo, with a maximum capacity of 330 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH11, and exhausting through one (1) stack, identified as J11.
- (d) One (1) hydrocal storage silo, with a maximum capacity of 140 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH12, and exhausting through one (1) stack, identified as J12.
- (e) One (1) mica storage silo, with a maximum capacity of 60 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH13, and exhausting through one (1) stack, identified as J13.
- (f) One (1) perlite storage silo, with a maximum capacity of 250 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH16, and exhausting through one (1) stack, identified as J16.

- (g) One (1) enclosed rock shed, with a maximum capacity of 125,000 tons, with a transfer vacuum receiver, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-20, and exhausting inside the shed.
- (h) One (1) synthetic gypsum stockpile, identified as F1, with fugitive particulate matter emissions exhausting directly to the atmosphere.

A landplaster production process, consisting of the following equipment:

- (a) A conveying system, consisting of belt and screw conveyors, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or directly to the atmosphere. Some portions of the conveyor system are controlled by either of two (2) baghouses, identified as MBH-8 and MBH-10, and exhausting through either of two (2) stacks, identified as M-7 and M-13, respectively.
- (b) One (1) dryer mill bin #1, with a maximum capacity of 60 tons and a throughput of 40 tons per hour, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.
- (c) One (1) dryer mill bin #2, with a maximum capacity of 60 tons and a throughput of 40 tons per hour, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.
- (d) One (1) dryer mill #1, with a maximum throughput of 35 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-8, and exhausting through one (1) stack, identified as M-7.
- (e) One (1) natural gas-fired burner for the dryer mill #1, with a heat input capacity of 20 MMBtu per hour, and exhausting through one (1) stack, identified as M-8.
- (f) One (1) screening station #1, with a maximum throughput of 35 tons per hour, with particulate matter emissions controlled by total enclosure, and exhausting to dryer mill #1.
- (g) One (1) dryer mill #2, with a maximum throughput of 35 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-10, and exhausting through one (1) stack, identified as M-13.
- (h) One (1) natural gas-fired burner for the dryer mill #2, with a heat input capacity of 20 MMBtu per hour, and exhausting through one (1) stack, identified as M-12.
- (i) One (1) screening station #2, with a maximum throughput of 35 tons per hour, with particulate matter emissions controlled by total enclosure, and exhausting to dryer mill #2.

A stucco production process, consisting of the following equipment:

- (a) One (1) kettle feed bin #2, with a maximum capacity of 60 tons, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-18, and exhausting through one (1) stack, identified as M-18.
- (b) One (1) calcining kettle #2, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-11, and exhausting through one (1) stack, identified as M-16.
- (c) Six (6) natural-gas fired burners for the calcining kettle #2, each with a heat input capacity of 5 MMBtu per hour, and exhausting through one (1) stack, identified as M-15.

- (d) One (1) kettle feed bin #3, with a maximum capacity of 60 tons, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-13, and exhausting through one (1) stack, identified as M-18.
- (e) One (1) calcining kettle #3, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-1, and exhausting through one (1) stack, identified as M-1.
- (f) One (1) natural-gas fired burner for the calcining kettle #3, with a heat input capacity of 20 MMBtu per hour, and exhausting through one (1) stack, identified as M-6.
- (g) One (1) hot pit #3, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-3, and exhausting through one (1) stack, identified as M-3.
- (h) A conveying system, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or directly to the atmosphere. Some portions of the conveyor system are controlled by one (1) baghouse, identified as MBH-13, and exhausting through one (1) stack, identified as M-18.

An existing gypsum wallboard manufacturing line, consisting of the following equipment:

- (a) An elevating and conveying system, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or directly to the atmosphere. Some portions of the conveyor system are controlled by one (1) baghouse, identified as MBH-2, and exhausting through one (1) stack, identified as M-2.
- (b) One (1) stucco screen, with a maximum throughput of 32 tons per hour, with particulate matter controlled by one (1) bin vent, identified as MBH-9, and exhausting through one (1) stack, identified as M-9.
- (c) Two (2) stucco storage bins, with particulate matter emissions controlled by one (1) bin vent, identified as MBH-9, and exhausting through one (1) stack, identified as M-9.
- (d) One (1) paper fiber mill with cyclone separator, with a maximum throughput of 200 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-1, and exhausting through one (1) stack, identified as B-1.
- (e) Four (4) dry additive storage bins with hopper feeders, each with a maximum capacity of 5 tons, with all particulate matter emissions controlled by one (1) baghouse, identified as BB-1, and all exhausting to one (1) stack, identified as BB-1.
- (f) One (1) manually fed dry additive hopper feeder, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (g) One (1) HRA mill additive bin with hopper feeder, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-7, and exhausting inside the building.
- (h) One (1) manually fed HRA mill hopper feeder, with particulate matter emissions uncontrolled, and exhausting inside the building.

- (i) One (1) HRA ball mill, with a maximum throughput of 1620 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-8, and exhausting inside the building.
- (j) One (1) dry mixing screw conveyor, with a maximum throughput of 60 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-1, and exhausting through one (1) stack, identified as B-1.
- (k) One (1) wet mixer, with a maximum throughput of 80 tons per hour, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (l) Three (3) wallboard drying kiln burners, each with a heat input capacity of 22.7 million Btu per hour, with emissions uncontrolled, and exhausting in the kiln.
- (m) One (1) wallboard drying kiln, with a maximum throughput of 32,400 square feet of wallboard per hour, with emissions uncontrolled, and exhausting through three (3) stacks, identified as B-4, B-5 and B-6.
- (n) One (1) end saw, with a maximum throughput of 32,400 square feet of wallboard per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-2, and exhausting through one (1) stack, identified as B-2.

A new gypsum wallboard manufacturing line, consisting of the following equipment:

- (a) One (1) stucco storage bin, with a maximum capacity of 1200 tons, with particulate matter controlled by one (1) bin vent, identified as BBH-11, and exhausting through one (1) stack, identified as B-11.
- (b) One (1) stucco surge bin with hopper, with a maximum capacity of 2 tons, with particulate matter controlled by one (1) baghouse, identified as BBH-13, and exhausting through one (1) stack, identified as B-13.
- (c) One (1) landplaster feed bin, with a maximum capacity of 5 tons, with particulate matter emissions controlled by one (1) bin vent, identified as BBH-12, and exhausting through one (1) stack, identified as B-12.
- (d) One (1) HRA mill additive bin, with a maximum capacity of 6 cubic feet, with particulate matter emissions controlled by one (1) bin vent, identified as MBH-19, and exhausting inside the building.
- (e) One (1) HRA ball mill, with a maximum throughput of 2400 pounds per hour, with particulate matter controlled by one (1) baghouse, identified as BBH-14, and exhausting through one (1) stack, identified as B-18.
- (f) One (1) HRA bin, with a maximum capacity of 3 tons, with particulate matter controlled by one (1) baghouse, identified as BBH-13, and exhausting through one (1) stack, identified as B-13.
- (g) Two (2) additive storage bin vacuum receivers, each with particulate matter emissions controlled by one (1) baghouse, identified as BVH-1 and BVH-2, and each exhausting to one (1) stack, identified as B-14 and B-15, respectively.
- (h) Two (2) additive refill vacuum receivers, each with particulate matter emissions controlled by one (1) baghouse, identified as BVH-3 and BVH-4, and each exhausting to one (1) stack, identified as B-16 and B-17, respectively.

- (i) Two (2) additive bulk storage bins, each with a maximum capacity of 75 tons, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-13, and all exhausting to one (1) stack, identified as B-13.
- (j) Two (2) additive surge storage bins, each with a maximum capacity of 5 tons, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-13, and all exhausting to one (1) stack, identified as B-13.
- (k) One (1) glass fiber additive bin, with a maximum capacity of 0.5 ton, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (l) One (1) paper fiber mill with cyclone separator, with a maximum throughput of 200 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH13, and exhausting through one (1) stack, identified as B13.
- (m) One (1) mixing screw conveyor, with a maximum throughput of 60 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH13, and exhausting through one (1) stack, identified as B13.
- (n) One (1) natural gas-fired gauging water heater, with a heat input capacity of 3.5 MMBtu per hour, and exhausting through one (1) stack, identified as B-19.
- (o) One (1) wet mixer, with particulate matter emissions controlled by one (1) baghouse, identified as BBH13, and exhausting through one (1) stack, identified as B13.
- (p) One (1) wet zone kiln natural gas-fired burner, with a heat input capacity of 66 MMBtu per hour, and exhausting through one (1) stack, identified as B-20.
- (q) One (1) dry zone kiln natural gas-fired burner, with a heat input capacity of 66 MMBtu per hour, and exhausting through one (1) stack, identified as B-21.
- (r) One (1) wet end seal natural gas-fired burner, with a heat input capacity of 1.5 MMBtu per hour, and exhausting through one (1) stack, identified as B-22.
- (s) One (1) dry end seal natural gas-fired burner, with a heat input capacity of 1.5 MMBtu per hour, and exhausting through one (1) stack, identified as B-23.
- (t) One (1) wallboard drying kiln, with a maximum throughput of 32,400 square feet of wallboard per hour, and exhausting through one (1) main stack, identified as B24. A portion of the exhaust is sent through a heat exchanger which exhausts through one (1) stack, identified as B27.
- (u) One (1) end saw, with a maximum throughput of 32,400 square feet of wallboard per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH15, and exhausting through one (1) stack, identified as B25.
- (v) One (1) waste reclaim shredder, with a maximum throughput of 50 tons per hour, with particulate matter controlled by one (1) baghouse, identified as WRBH-1, and exhausting through one (1) stack, identified as WR-1.

A joint treatment process, consisting of the following equipment:

- (a) A pneumatic conveying system from the bulk storage bins to the scale hoppers, with particulate matter emissions controlled by three (3) baghouses, identified as JBH-11, JBH-12 and JBH-13, and exhausting through three (3) stacks, identified as J-11, J-12 and J-13, respectively.
- (b) Four (4) scale hoppers, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (c) A ready-mix line, consisting of the following equipment:
 - (1) Two (2) holding hoppers, each with a maximum throughput of 5 tons per hour, each with particulate matter emissions controlled by one (1) baghouse, identified as JBH-1 and JBH-2, and each exhausting through one (1) stack, identified as J-1 and J-2, respectively.
 - (2) One (1) dry additives bag dump, with a maximum throughput of 1176 pounds per hour, with particulate matter controlled by three (3) baghouses, identified as JBH1, JBH2 and JVH3, and exhausting through three (3) stacks, identified as J1, J2 and J3, respectively.
 - (3) Two (2) wet mixers, each with a maximum throughput of 7.25 tons per hour, and exhausting inside the building.
- (d) A dry joint compound line, consisting of the following equipment:
 - (1) One (1) dry additives bag dump, with a maximum throughput of 600 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JVH8, and exhausting through one (1) stack, identified as J8.
 - (2) One (1) reclaim screw conveyor, with a maximum throughput of 1,184 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH7, and exhausting through one (1) stack, identified as J7.
 - (3) One (1) dry joint mixer, with a maximum throughput of 5,678 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH7, and exhausting through one (1) stack, identified as J7.
 - (4) One (1) packing machine, with a maximum throughput of 5,100 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH14, and exhausting inside the building.
- (e) A dry texture paint line, consisting of the following equipment:
 - (1) One (1) dry additives bag dump, with a maximum throughput of 390 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JVH-6, and exhausting through one (1) stack, identified as J-6.
 - (2) One (1) reclaim screw conveyor, with maximum throughput of 502 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-4, and exhausting through one (1) stack, identified as J-4.
 - (3) One (1) dry texture paint mixer, with a maximum throughput of 4650 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-4, and exhausting through one (1) stack, identified as J-4.

- (4) One (1) packing machine, with a maximum throughput of 4650 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-4, and exhausting through one (1) stack, identified as J-4.
- (5) One (1) dry paint weigh station, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-15, and exhausting through one (1) stack, identified as JV-19.

A Franklin Fiber process, consisting of the following equipment:

- (a) Two (2) wet mixing tanks, with a combined maximum throughput of 1535 pounds per hour, with particulate matter emissions controlled by moisture content, and exhausting inside the building.
- (b) One (1) reactor chamber using boiler steam, with particulate matter emissions controlled by moisture content, and exhausting inside the building.
- (c) One (1) filter using boiler heat to start drying process, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (d) One (1) lump breaker and natural gas-fired dryer, with a heat input capacity of 3 MMBtu per hour and maximum throughput of 1535 pounds per hour, with particulate matter emissions controlled by two (2) baghouses, identified as MBH-6 and MBH-7, and exhausting through one (1) stacks, identified as M6.
- (e) One (1) drop out box, with a maximum throughput of 8 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-6, and exhausting through one (1) stack, identified as M-6.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]
[326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) One (1) natural gas-fired boiler, with a heat input capacity of 8.4 million Btu per hour, with emissions uncontrolled, and exhausting through one (1) stack, identified as M-3.
- (b) One (1) natural gas-fired boiler, with a heat input capacity of 3.4 million Btu per hour, with emissions uncontrolled, and exhausting through one (1) stack, identified as M-4.
- (c) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (d) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (e) One (1) landplaster baler, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.
- (f) A polypropylene bag grinding process, consisting of the following equipment:
 - (1) A bag storage and conveying system, with two (2) bins and two (2) screw conveyors, with negligible emissions, and exhausting inside the building.

- (2) Two (2) polypropylene bags grinding machines, each with a maximum throughput of 20 pounds per hour, with particulate matter emissions controlled by partial enclosure, and exhausted to the ground polypropylene bins.
- (3) Three (3) ground polypropylene bins with screens, with a combined maximum capacity of 360 cubic feet, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (4) One (1) weigh feeder, with a maximum throughput of 47 pounds per hour, with particulate matter emissions uncontrolled, and exhausting inside the building.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [326 IAC 2-1-10] [IC 13]

- (a) Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7.
- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-1-3.2 or 326 IAC 2-7-15, as set out in this permit in the Section B condition entitled "Permit Shield."

B.2 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2 and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-7-7(a)]

- (a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM.
- (b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.
- (c) All terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by.

B.5 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.6 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that IDEM, OAM, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAM, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, then the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit constitutes a violation of the Clean Air Act and is grounds for:
- (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)]

- (a) Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this permit, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.11 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was based on continuous or intermittent data;
 - (4) The methods used for determining compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3);
 - (5) Any insignificant activity that has been added without a permit revision; and
 - (6) Such other facts, as specified in Sections D of this permit, as IDEM, OAM, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.12 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMP cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM.

B.13 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-7-16.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Management, Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice, either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) IDEM, OAM, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(9) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAM, by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
 - (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

- (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.

Any operation shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.14 Permit Shield [326 IAC 2-7-15]

- (a) This condition provides a permit shield as addressed in 326 IAC 2-7-15.
- (b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. Compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that:
 - (1) The applicable requirements are included and specifically identified in this permit; or
 - (2) The permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable.
- (c) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAM, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (d) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application.
- (e) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

- (f) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (g) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAM, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAM, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.15 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.16 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
 - (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) An emergency as defined in 326 IAC 2-7-1(12); or
 - (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
 - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM, determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAM, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.18 Permit Renewal [326 IAC 2-7-4]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due. [326 IAC 2-5-3]

- (2) If IDEM, OAM, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.
- (c) **Right to Operate After Application for Renewal** [326 IAC 2-7-3]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAM, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAM, any additional information identified as being needed to process the application.
- (d) **United States Environmental Protection Agency Authority** [326 IAC 2-7-8(e)]
If IDEM, OAM, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "responsible official" as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.20 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]
[326 IAC 2-7-12 (b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1)(D)(i) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.21 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-7-20(b)]

The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a) and the following additional conditions:

- (a) For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.
- (b) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).

B.22 Operational Flexibility [326 IAC 2-7-20]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAM, in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

- (b) For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
- (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and
 - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAM, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.23 Construction Permit Requirement [326 IAC 2]

Except as allowed by Indiana P.L. 130-1996 Section 12, as amended by P.L. 244-1997, modification, construction, or reconstruction shall be approved as required by and in accordance with 326 IAC 2.

B.24 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements. [326 IAC 2-7-6(6)]
 - (1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAM, or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAM, nor an authorized representative, may disclose the information unless and until IDEM, OAM, makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]
 - (2) The Permittee and IDEM, OAM, acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]

B.25 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-7-11]
Pursuant to 326 IAC 2-1-6 and 326 IAC 2-7-11:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the Permittee and the new owner.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-7-11. The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) IDEM, OAM, shall reserve the right to issue a new permit.

B.26 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Major Source

Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 and 326 IAC 2-3 (Emission Offset), this source is a major source.

C.2 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period, as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

C.5 Incineration [326 IAC 4-2][326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.7 Operation of Equipment [326 IAC 2-7-6(6)]

All air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.8 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.10 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing methods approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.11 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) Has certified that all facilities at this source are in compliance with all applicable requirements; and
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) Will comply with such applicable requirements that become effective during the term of this permit.

C.12 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment, no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee may extend compliance schedule an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.13 Maintenance of Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.14 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the applicable requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.15 Pressure Gauge Specifications

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.16 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ninety (90) days after the date of issuance of this permit.

The ERP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAM, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.17 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present in a process in more than the threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
 - (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM, OAM, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM, that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.18 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5][326 IAC 2-7-6] [326 IAC 1-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
 - (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and

- (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
- (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.19 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]
[326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.20 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
- (1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission statement must be submitted to:
- Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.

C.21 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]

- (a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.22 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that improper maintenance did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.23 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Semi-Annual Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported.
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any semi-annual report shall be submitted within thirty (30) days of the end of the reporting period.
- (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports.
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Stratospheric Ozone Protection

C.24 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

Raw material handling and storage, consisting of the following equipment:

- (a) One (1) pneumatic rail car unloading facility, with a maximum throughput of 12 tons per hour, used for limestone, hydrocal, and mica, with particulate matter emissions controlled by one (1) baghouse, identified as JVH10, and exhausting through one (1) stack, identified as J10.
- (b) One (1) pneumatic truck unloading facility, with a maximum throughput of 11 tons per hour, used for perlite, with particulate matter emissions controlled by one (1) baghouse, identified as JBH16, and exhausting through one (1) stack, identified as J16.
- (c) One (1) limestone storage silo, with a maximum capacity of 330 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH11, and exhausting through one (1) stack, identified as J11.
- (d) One (1) hydrocal storage silo, with a maximum capacity of 140 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH12, and exhausting through one (1) stack, identified as J12.
- (e) One (1) mica storage silo, with a maximum capacity of 60 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH13, and exhausting through one (1) stack, identified as J13.
- (f) One (1) perlite storage silo, with a maximum capacity of 250 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH16, and exhausting through one (1) stack, identified as J16.
- (g) One (1) enclosed rock shed, with a maximum capacity of 125,000 tons, with a transfer vacuum receiver, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-20, and exhausting inside the shed.
- (h) One (1) synthetic gypsum stockpile, identified as F1, with fugitive particulate matter emissions exhausting directly to the atmosphere.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Nonattainment Area Particulate Limitation [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the PM emissions from the truck unloading facility exhausting to stack J16 and from the transfer vacuum receiver each shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.1.2 Lake County PM₁₀ Emission Requirements [326 IAC 6-1-10.1]

Pursuant to 326 IAC 6-1-10.1 (Lake County PM₁₀ Emission Requirements), the PM₁₀ emissions shall be limited as follows:

- (a) PM₁₀ emissions from the rail car unloading facility exhausting to stack J10 shall not exceed 0.010 grains per dry standard cubic foot and 0.070 pounds per hour.
- (b) PM₁₀ emissions from the storage and conveying facilities exhausting to stacks J11, J12 and J13 shall each not exceed 0.015 grains per dry standard cubic foot and 0.190 pounds per hour.

D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.1.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM and PM₁₀ limits specified in Conditions D.1.1 and D.1.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.1.5 Particulate Matter (PM)

Pursuant to OP-45-07-93-0520, issued on December 19, 1989, the baghouses for PM control shall be in operation at all times when the associated raw material handling and storage facility is in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.6 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhausts J10, J11, J12, J13 and J16 shall be performed during normal daylight operations when the associated facilities are in operation. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.1.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the raw material handling and storage facilities, at least once weekly when the associated raw material handling and storage facility is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 2.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.1.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the raw material handling and storage facilities. All defective bags shall be replaced.

D.1.9 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.10 Record Keeping Requirements

- (a) To document compliance with Condition D.1.6, the Permittee shall maintain records of daily visible emission notations of the baghouse stack exhausts J10, J11, J12, J13 and J16.
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event .
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.1.8, the Permittee shall maintain records of the results of the inspections required under Condition D.1.8.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

A landplaster production process, consisting of the following equipment:

- (a) A conveying system, consisting of belt and screw conveyors, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or directly to the atmosphere. Some portions of the conveyor system are controlled by either of two (2) baghouses, identified as MBH-8 and MBH-10, and exhausting through either of two (2) stacks, identified as M-7 and M-13, respectively.
- (b) One (1) dryer mill bin #1, with a maximum capacity of 60 tons and a throughput of 40 tons per hour, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.
- (c) One (1) dryer mill bin #2, with a maximum capacity of 60 tons and a throughput of 40 tons per hour, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.
- (d) One (1) dryer mill #1, with a maximum throughput of 35 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-8, and exhausting through one (1) stack, identified as M-7.
- (e) One (1) natural gas-fired burner for the dryer mill #1, with a heat input capacity of 20 MMBtu per hour, and exhausting through one (1) stack, identified as M-8.
- (f) One (1) screening station #1, with a maximum throughput of 35 tons per hour, with particulate matter emissions controlled by total enclosure, and exhausting to dryer mill #1.
- (g) One (1) dryer mill #2, with a maximum throughput of 35 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-10, and exhausting through one (1) stack, identified as M-13.
- (h) One (1) natural gas-fired burner for the dryer mill #2, with a heat input capacity of 20 MMBtu per hour, and exhausting through one (1) stack, identified as M-12.
- (i) One (1) screening station #2, with a maximum throughput of 35 tons per hour, with particulate matter emissions controlled by total enclosure, and exhausting to dryer mill #2.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Nonattainment Area Particulate Limitation [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the PM emissions from landplaster production process shall be limited as follows:

- (a) PM emissions from dryer mill #1 and associated screen exhausting to stack M-7 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (b) PM emissions from dryer mill #2 and associated screen exhausting to stack M-13 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (c) PM emissions from the natural gas-fired burners for dryer mills #1 and #2 exhausting to stacks M-8 and M-12 shall each not exceed 0.01 grains per dry standard cubic foot (gr/dscf).

D.2.2 Emission Offset Minor PM Limit [326 IAC 2-3]

Pursuant to CP-089-8657-00333, issued on January 8, 1998, the PM emissions from dryer mill #2 and associated screen exhausting to stack M-13 shall not exceed 0.010 grains per dry standard cubic foot. Compliance with this limit makes 326 IAC 2-3 (Emission Offset) not applicable. Compliance with this limit will also satisfy the requirements of 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations).

D.2.3 New Source Performance Standard [326 IAC 12] [40 CFR 60, Subpart OOO]

Pursuant to 40 CFR 60, Subpart OOO (Nonmetallic Mineral Processing Plants), PM emissions from the dryer mill #2 and associated screen exhausting to stack M-13 shall not exceed 0.05 grams per dry standard cubic meter (g/dscm) and seven percent (7%) opacity. Any fugitive emissions associated with these facilities shall not exceed ten percent (10%) opacity.

D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.2.5 Testing Requirements [326 IAC 2-7-6(1),(6)]

- (a) Pursuant to CP 089-8657-00333, issued on January 8, 1998, the Permittee shall perform compliance testing for PM from the dryer mill #2 and associated screen exhausting to stack M-13 within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. The tests shall be performed in accordance with Section C - Performance Testing and 40 CFR 60.675.
- (b) The Permittee is not required to test the dryer mill #1 and associated screen exhausting to stack M-7 by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limits specified in Conditions D.2.1, D.2.2 and D.2.3 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.2.6 Particulate Matter (PM)

Pursuant to OP 45-07-93-0510, issued on December 19, 1989, and CP-089-8657-00333, issued on January 8, 1998, the baghouses for PM control shall be in operation at all times when the associated facilities are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.7 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhausts M-7 and M-13 shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.2.8 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the landplaster production process, at least once daily when the associated facilities are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 2.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.2.9 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the landplaster production process. All defective bags shall be replaced.

D.2.10 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.11 Record Keeping Requirements

- (a) To document compliance with Condition D.2.7, the Permittee shall maintain records of daily visible emission notations of the stack exhausts M-7 and M-13.
- (b) To document compliance with Condition D.2.8, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event.

- (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
- (4) Quality Assurance/Quality Control (QA/QC) procedures.
- (5) Operator standard operating procedures (SOP).
- (6) Manufacturer's specifications or its equivalent.
- (7) Equipment "troubleshooting" contingency plan.
- (8) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.2.9, the Permittee shall maintain records of the results of the inspections required under Condition D.2.9.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

A stucco production process, consisting of the following equipment:

- (a) One (1) kettle feed bin #2, with a maximum capacity of 60 tons, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-18, and exhausting through one (1) stack, identified as M-18.
- (b) One (1) calcining kettle #2, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-11, and exhausting through one (1) stack, identified as M-16.
- (c) Six (6) natural-gas fired burners for the calcining kettle #2, each with a heat input capacity of 5 MMBtu per hour, and exhausting through one (1) stack, identified as M-15.
- (d) One (1) kettle feed bin #3, with a maximum capacity of 60 tons, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-13, and exhausting through one (1) stack, identified as M-18.
- (e) One (1) calcining kettle #3, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-1, and exhausting through one (1) stack, identified as M-1.
- (f) One (1) natural-gas fired burner for the calcining kettle #3, with a heat input capacity of 20 MMBtu per hour, and exhausting through one (1) stack, identified as M-6.
- (g) One (1) hot pit #3, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-3, and exhausting through one (1) stack, identified as M-3.
- (h) A conveying system, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or directly to the atmosphere. Some portions of the conveyor system are controlled by one (1) baghouse, identified as MBH-13, and exhausting through one (1) stack, identified as M-18.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Nonattainment Area Particulate Limitation [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the PM emissions from the stucco production process shall be limited as follows:

- (a) PM emissions from kettle feed bins #2 and #3 exhausting to stack M-18 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (b) PM emissions from calcining kettle #2 exhausting to stack M-16 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (c) PM emissions from the natural gas-fired burners for kettle #2 exhausting to stack M-15 shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf).
- (d) PM emissions from the natural gas-fired burners for kettle #3 exhausting to stack M-6 shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf).
- (e) PM emissions from hot pit #3 exhausting to stack M-3 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.3.2 Lake County PM₁₀ Emission Requirements [326 IAC 6-1-10.1]

Pursuant to 326 IAC 6-1-10.1 (Lake County PM₁₀ Emission Requirements), the PM₁₀ emissions from kettle #3 exhausting to stack M-1 shall not exceed 0.012 grains per dry standard cubic foot and 3.210 pounds per hour.

D.3.3 Emission Offset Minor PM Limit [326 IAC 2-3]

Pursuant to CP-089-8657-00333, issued on January 8, 1998, the PM emissions shall be limited as follows:

- (a) PM emissions from kettle #2 exhausting to stack M-16 shall not exceed 0.010 grains per dry standard cubic foot.
- (b) PM emissions from kettle feed bins #2 and #3 exhausting to stack M-18 shall not exceed 0.008 grains per dry standard cubic foot.

Compliance with these limits make 326 IAC 2-3 (Emission Offset) not applicable. Compliance with these limits also will satisfy the requirements of 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations) for these facilities.

D.3.4 New Source Performance Standard [326 IAC 12] [40 CFR 60, Subpart UUU]

Pursuant to 40 CFR 60, Subpart UUU (Calciners and Dryers in Mineral Industries), PM emissions from the kettle #2 exhausting to stack M-16 shall not exceed 0.092 grams per dry standard cubic meter (g/dscm) and ten percent (10%) opacity.

D.3.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.3.6 Testing Requirements [326 IAC 2-7-6(1),(6)]

- (a) Pursuant to CP 089-8657-00333, issued on January 8, 1998, the Permittee shall perform compliance testing for PM from kettle #2 exhausting to stack M-16 and kettle feed bins exhausting to stack M-18 within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. The tests shall be performed in accordance with Section C - Performance Testing and 40 CFR 60.736.
- (b) The Permittee is not required to test the remaining stucco production facilities by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the limits specified in Conditions D.3.1, D.3.2, D.3.3 and D.3.4 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.3.7 Particulate Matter (PM)

Pursuant to OP 45-07-93-0508, issued on December 19, 1989, and CP-089-8657-00333, issued on January 8, 1998, the baghouses for PM control shall be in operation at all times when the associated facilities are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.3.8 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhausts M-1, M-3, M-16 and M-18 shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.3.9 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the stucco production process, at least once daily when the associated facilities are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 2.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.3.10 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the stucco production process. All defective bags shall be replaced.

D.3.11 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.12 Record Keeping Requirements

- (a) To document compliance with Condition D.3.8, the Permittee shall maintain records of daily visible emission notations of the stack exhausts M-1, M-3, M-16 and M-18.
- (b) To document compliance with Condition D.3.9, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchase orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.

- (c) To document compliance with Condition D.3.10, the Permittee shall maintain records of the results of the inspections required under Condition D.3.10.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.4

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

An existing gypsum wallboard manufacturing line, consisting of the following equipment:

- (a) An elevating and conveying system, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or directly to the atmosphere. Some portions of the conveyor system are controlled by one (1) baghouse, identified as MBH-2, and exhausting through one (1) stack, identified as M-2.
- (b) One (1) stucco screen, with a maximum throughput of 32 tons per hour, with particulate matter controlled by one (1) bin vent, identified as MBH-9, and exhausting through one (1) stack, identified as M-9.
- (c) Two (2) stucco storage bins, with particulate matter emissions controlled by one (1) bin vent, identified as MBH-9, and exhausting through one (1) stack, identified as M-9.
- (d) One (1) paper fiber mill with cyclone separator, with a maximum throughput of 200 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-1, and exhausting through one (1) stack, identified as B-1.
- (e) Four (4) dry additive storage bins with hopper feeders, each with a maximum capacity of 5 tons, with all particulate matter emissions controlled by one (1) baghouse, identified as BB-1, and all exhausting to one (1) stack, identified as BB-1.
- (f) One (1) manually fed dry additive hopper feeder, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (g) One (1) HRA mill additive bin with hopper feeder, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-7, and exhausting inside the building.
- (h) One (1) manually fed HRA mill hopper feeder, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (i) One (1) HRA ball mill, with a maximum throughput of 1620 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-8, and exhausting inside the building.
- (j) One (1) dry mixing screw conveyor, with a maximum throughput of 60 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-1, and exhausting through one (1) stack, identified as B-1.
- (k) One (1) wet mixer, with a maximum throughput of 80 tons per hour, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (l) Three (3) wallboard drying kiln burners, each with a heat input capacity of 22.7 million Btu per hour, with emissions uncontrolled, and exhausting in the kiln.
- (m) One (1) wallboard drying kiln, with a maximum throughput of 32,400 square feet of wallboard per hour, with emissions uncontrolled, and exhausting through three (3) stacks, identified as B-4, B-5 and B-6.

Facility Description [326 IAC 2-7-5(15)]

An existing gypsum wallboard manufacturing line, consisting of the following equipment (contd.):

- (n) One (1) end saw, with a maximum throughput of 32,400 square feet of wallboard per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-2, and exhausting through one (1) stack, identified as B-2.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.4.1 Nonattainment Area Particulate Limitation [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the PM emissions from the existing wallboard production facilities shall be limited as follows:

- (a) PM emissions from the stucco bins and screens exhausting to stack M-9 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (b) PM emissions from the dry additive storage bins exhausting to stack BB-1 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (c) PM emissions from the drying kiln exhausting to stacks B-4, B-5 and B-6 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.4.2 Lake County PM₁₀ Emission Requirements [326 IAC 6-1-10.1]

Pursuant to 326 IAC 6-1-10.1 (Lake County PM₁₀ Emission Requirements), the PM₁₀ emissions from the existing wallboard production facilities shall be limited as follows:

- (a) PM₁₀ emissions from the stucco elevating and conveying equipment exhausting to stack M-2 shall not exceed 0.015 grains per dry standard cubic foot and 2.210 pounds per hour.
- (b) PM₁₀ emissions from the paper grinding, additive system, and mixing screw exhausting to stack B-1 shall not exceed 0.020 grains per dry standard cubic foot and 2.230 pounds per hour.
- (c) PM₁₀ emissions from the end saws exhausting to stack B-2 shall not exceed 0.020 grains per dry standard cubic foot and 0.860 pounds per hour.

D.4.3 PSD and Emission Offset Minor Limit [326 IAC 2-2] [40 CFR 52.21] [326 IAC 2-3]

Pursuant to CP 089-8657-00333, issued on January 8, 1998, the equipment listed in this section shall be removed from service prior to operation of the dryer mill #2 in Section D.2, the kettle #2 and hot pit #2 in Section D.3, or any of the equipment listed in Section D.5 of this permit. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration), 40 CFR 52.21, and 326 IAC 2-3 (Emission Offset) not applicable.

D.4.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.4.5 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facilities are in compliance.

If testing is required by IDEM, compliance with the PM and PM₁₀ limits specified in Conditions D.4.1 and D.4.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.4.6 Particulate Matter (PM)

Pursuant to OP 45-07-93-0511 and OP 45-07-93-0513, issued on December 19, 1989, the baghouses for PM control shall be in operation at all times when the associated facilities are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.4.7 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhausts M-2, M-9, B-1, B-2, B-4, B-5, B-6 and BB-1 shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.4.8 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the existing wallboard production process, at least once daily when the associated facilities are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 2.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.4.9 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the existing wallboard production process. All defective bags shall be replaced.

D.4.10 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated.

For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.4.11 Record Keeping Requirements

- (a) To document compliance with Condition D.4.7, the Permittee shall maintain records of daily visible emission notations of the stack exhausts M-2, M-9, B-1, B-2, B-4, B-5, B-6 and BB-1.
- (b) To document compliance with Condition D.4.8, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.4.9, the Permittee shall maintain records of the results of the inspections required under Condition D.4.9.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.5

FACILITY CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

A new gypsum wallboard manufacturing line, consisting of the following equipment:

- (a) One (1) stucco storage bin, with a maximum capacity of 1200 tons, with particulate matter controlled by one (1) bin vent, identified as BBH-11, and exhausting through one (1) stack, identified as B-11.
- (b) One (1) stucco surge bin with hopper, with a maximum capacity of 2 tons, with particulate matter controlled by one (1) baghouse, identified as BBH-13, and exhausting through one (1) stack, identified as B-13.
- (c) One (1) landplaster feed bin, with a maximum capacity of 5 tons, with particulate matter emissions controlled by one (1) bin vent, identified as BBH-12, and exhausting through one (1) stack, identified as B-12.
- (d) One (1) HRA mill additive bin, with a maximum capacity of 6 cubic feet, with particulate matter emissions controlled by one (1) bin vent, identified as MBH-19, and exhausting inside the building.
- (e) One (1) HRA ball mill, with a maximum throughput of 2400 pounds per hour, with particulate matter controlled by one (1) baghouse, identified as BBH-14, and exhausting through one (1) stack, identified as B-18.
- (f) One (1) HRA bin, with a maximum capacity of 3 tons, with particulate matter controlled by one (1) baghouse, identified as BBH-13, and exhausting through one (1) stack, identified as B-13.
- (g) Two (2) additive storage bin vacuum receivers, each with particulate matter emissions controlled by one (1) baghouse, identified as BVH-1 and BVH-2, and each exhausting to one (1) stack, identified as B-14 and B-15, respectively.
- (h) Two (2) additive refill vacuum receivers, each with particulate matter emissions controlled by one (1) baghouse, identified as BVH-3 and BVH-4, and each exhausting to one (1) stack, identified as B-16 and B-17, respectively.
- (i) Two (2) additive bulk storage bins, each with a maximum capacity of 75 tons, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-13, and all exhausting to one (1) stack, identified as B-13.
- (j) Two (2) additive surge storage bins, each with a maximum capacity of 5 tons, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-13, and all exhausting to one (1) stack, identified as B-13.
- (k) One (1) glass fiber additive bin, with a maximum capacity of 0.5 ton, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (l) One (1) paper fiber mill with cyclone separator, with a maximum throughput of 200 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH13, and exhausting through one (1) stack, identified as B13.

Facility Description [326 IAC 2-7-5(15)]

A new gypsum wallboard manufacturing line, consisting of the following equipment (contd.):

- (m) One (1) mixing screw conveyor, with a maximum throughput of 60 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH13, and exhausting through one (1) stack, identified as B13.
- (n) One (1) natural gas-fired gauging water heater, with a heat input capacity of 3.5 MMBtu per hour, and exhausting through one (1) stack, identified as B-19.
- (o) One (1) wet mixer, with particulate matter emissions controlled by one (1) baghouse, identified as BBH13, and exhausting through one (1) stack, identified as B13.
- (p) One (1) wet zone kiln natural gas-fired burner, with a heat input capacity of 66 MMBtu per hour, and exhausting through one (1) stack, identified as B-20.
- (q) One (1) dry zone kiln natural gas-fired burner, with a heat input capacity of 66 MMBtu per hour, and exhausting through one (1) stack, identified as B-21.
- (r) One (1) wet end seal natural gas-fired burner, with a heat input capacity of 1.5 MMBtu per hour, and exhausting through one (1) stack, identified as B-22.
- (s) One (1) dry end seal natural gas-fired burner, with a heat input capacity of 1.5 MMBtu per hour, and exhausting through one (1) stack, identified as B-23.
- (t) One (1) wallboard drying kiln, with a maximum throughput of 32,400 square feet of wallboard per hour, and exhausting through one (1) main stack, identified as B-24. A portion of the exhaust is sent through a heat exchanger which exhausts through one (1) stack, identified as B27.
- (u) One (1) end saw, with a maximum throughput of 32,400 square feet of wallboard per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH15, and exhausting through one (1) stack, identified as B-25.
- (v) One (1) waste reclaim shredder, with a maximum throughput of 50 tons per hour, with particulate matter controlled by one (1) baghouse, identified as WRBH-1, and exhausting through one (1) stack, identified as WR-1.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.5.1 Emission Offset Minor PM Limit [326 IAC 2-3]

Pursuant to CP-089-8657-00333, issued on January 8, 1998, the PM emissions shall be limited as follows:

- (a) PM emissions from the stucco storage bin exhausting to stack B-11 shall not exceed 0.008 grains per dry standard cubic foot.
- (b) PM emissions from the landplaster feed bin exhausting to stack B-12 shall not exceed 0.008 grains per dry standard cubic foot.
- (c) PM emissions from the HRA mill additive bin exhausting inside the building shall not exceed 0.010 grains per dry standard cubic foot.

- (d) PM emissions from the HRA ball mill exhausting to stack B-18 shall not exceed 0.010 grains per dry standard cubic foot.
- (e) PM emissions from the dry additive system exhausting to stack B-13 shall not exceed 0.008 grains per dry standard cubic foot.
- (f) PM emissions from the additive storage bin vacuum receivers and additive refill vacuum receivers exhausting to stacks B-14, B-15, B-16 and B-17 shall not exceed 0.008 grains per dry standard cubic foot.
- (g) PM emissions from the end saws exhausting to stack B-25 shall not exceed 0.008 grains per dry standard cubic foot.

Compliance with these limits make 326 IAC 2-3 (Emission Offset) not applicable. Compliance with these limits will also satisfy the requirements of 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations) for these facilities.

D.5.2 Nonattainment Area Particulate Limitation [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the PM emissions from the new gypsum wallboard line shall be limited as follows:

- (a) PM emissions from the stucco storage bin exhausting to stack B-11 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (b) PM emissions from the landplaster feed bin exhausting to stack B-12 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (c) PM emissions from the HRA mill additive bin exhausting inside the building shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (d) PM emissions from the HRA ball mill exhausting to stack B-18 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (e) PM emissions from the dry additive system exhausting to stack B-13 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (f) PM emissions from the additive storage bin vacuum receivers and additive refill vacuum receivers exhausting to stacks B-14, B-15, B-16 and B-17 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (g) PM emissions from the wallboard drying kiln exhausting to stack B-24 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (h) PM emissions from the natural gas-fired burners exhausting to stacks B-20, B-21, B-22 and B-23 shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf).
- (i) PM emissions from the natural gas-fired gauging water heater exhausting to stack B-19 shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf).
- (j) PM emissions from the end saws exhausting to stack B-25 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (k) PM emissions from the waste wallboard shredder exhausting to stack WR-1 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.5.3 New Source Performance Standard [326 IAC 12] [40 CFR 60, Subpart OOO]

Pursuant to 40 CFR 60, Subpart OOO (Nonmetallic Mineral Processing Plants), PM emissions from the waste wallboard shredder exhausting to stack WR-1 shall not exceed 0.05 grams per dry standard cubic meter (g/dscm) and seven percent (7%) opacity. Any fugitive emissions associated with these facilities shall not exceed ten percent (10%) opacity.

D.5.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.5.5 Testing Requirements [326 IAC 2-7-6(1),(6)]

- (a) Pursuant to CP 089-8657-00333, issued on January 8, 1998, the Permittee shall perform compliance testing for PM from the stucco storage bin exhausting to stack B-11, the dry additive system exhausting to stack B-13, the end saws exhausting to stack B-25, and the waste wallboard shredder exhausting to stack WR-1 within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. The tests shall be performed in accordance with Section C - Performance Testing and 40 CFR 60.675 (for the waste wallboard shredder).
- (b) The Permittee is not required to test the remaining wallboard production facilities by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facilities are in compliance. If testing is required by IDEM, compliance with the PM limits specified in Condition D.5.1, D.5.2 and D.5.3 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.5.6 Particulate Matter (PM)

Pursuant to CP 089-7755-00333, issued on February 19, 1997, and CP 089-8657-000333, issued on January 8, 1998, the baghouses for PM control shall be in operation at all times when the associated facilities are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.5.7 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhausts B-11 through B-18, B-25 and WR-1 shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.5.8 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the new wallboard production process, at least once daily when the associated facilities are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 2.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.5.9 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the new wallboard production process. All defective bags shall be replaced.

D.5.10 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.5.11 Record Keeping Requirements

- (a) To document compliance with Condition D.5.7, the Permittee shall maintain records of daily visible emission notations of the stack exhausts B-11 through B-18, B-25 and WR-1.
- (b) To document compliance with Condition D.5.8, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.

- (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.5.9, the Permittee shall maintain records of the results of the inspections required under Condition D.5.9.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.6

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

A joint treatment process, consisting of the following equipment:

- (a) A pneumatic conveying system from the bulk storage bins to the scale hoppers, with particulate matter emissions controlled by three (3) baghouses, identified as JBH-11, JBH-12 and JBH-13, and exhausting through three (3) stacks, identified as J-11, J-12 and J-13, respectively.
- (b) Four (4) scale hoppers, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (c) A ready-mix line, consisting of the following equipment:
 - (1) Two (2) holding hoppers, each with a maximum throughput of 5 tons per hour, each with particulate matter emissions controlled by one (1) baghouse, identified as JBH-1 and JBH-2, and each exhausting through one (1) stack, identified as J-1 and J-2, respectively.
 - (2) One (1) dry additives bag dump, with a maximum throughput of 1176 pounds per hour, with particulate matter controlled by three (3) baghouses, identified as JBH1, JBH2 and JVH3, and exhausting through three (3) stacks, identified as J1, J2 and J3, respectively.
 - (3) Two (2) wet mixers, each with a maximum throughput of 7.25 tons per hour, and exhausting inside the building.
- (d) A dry joint compound line, consisting of the following equipment:
 - (1) One (1) dry additives bag dump, with a maximum throughput of 600 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JVH8, and exhausting through one (1) stack, identified as J8.
 - (2) One (1) reclaim screw conveyor, with a maximum throughput of 1,184 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH7, and exhausting through one (1) stack, identified as J7.
 - (3) One (1) dry joint mixer, with a maximum throughput of 5,678 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH7, and exhausting through one (1) stack, identified as J7.
 - (4) One (1) packing machine, with a maximum throughput of 5,100 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH14, and exhausting inside the building.
- (e) A dry texture paint line, consisting of the following equipment:
 - (1) One (1) dry additives bag dump, with a maximum throughput of 390 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JVH-6, and exhausting through one (1) stack, identified as J-5.
 - (2) One (1) reclaim screw conveyor, with maximum throughput of 502 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-4, and exhausting through one (1) stack, identified as J-6.

Facility Description [326 IAC 2-7-5(15)]

A joint treatment process, consisting of the following equipment (contd.):

- (3) One (1) dry texture paint mixer, with a maximum throughput of 4650 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-4, and exhausting through one (1) stack, identified as J-4.
- (4) One (1) packing machine, with a maximum throughput of 4650 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-4, and exhausting through one (1) stack, identified as J-4.
- (5) One (1) dry paint weigh station, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-15, and exhausting through one (1) stack, identified as JV-19.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.6.1 Lake County PM₁₀ Emission Requirements [326 IAC 6-1-10.1]

Pursuant to 326 IAC 6-1-10.1 (Lake County PM₁₀ Emission Requirements), the PM₁₀ emissions from the dry treatment process facilities shall be limited as follows:

- (a) PM₁₀ emissions from the ready mix hoppers and bag dump exhausting to stacks J-1, J-2 and J-3 shall each not exceed 0.017 pounds per ton and 0.100 pounds per hour.
- (b) PM₁₀ emissions from the dry texture paint mixer and packing machine exhausting to stack J-4 shall not exceed 0.020 grains per dry standard cubic foot and 0.190 pounds per hour.
- (c) PM₁₀ emissions from the dry texture paint bag dump exhausting to stack J-5 shall not exceed 0.010 grains per dry standard cubic foot and 0.100 pounds per hour.
- (d) PM₁₀ emissions from the dry texture paint conveying exhausting to stack J-6 shall not exceed 0.010 grains per dry standard cubic foot and 0.030 pounds per hour.
- (e) PM₁₀ emissions from the dry joint mixing and conveying exhausting to stack J-7 shall not exceed 0.020 grains per dry standard cubic foot and 0.340 pounds per hour.
- (f) PM₁₀ emissions from the dry joint bag dump exhausting to stack J-8 shall not exceed 0.010 grains per dry standard cubic foot and 0.020 pounds per hour.

D.6.2 Nonattainment Area Particulate Limitation [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the PM emissions from the dry paint weigh station exhausting to stack JV-19 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.6.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.6.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

- (a) The Permittee shall perform compliance testing for PM₁₀ from the ready mix hopper #1 exhausting to stack J-1 within 12 months after issuance of this permit. The tests shall be performed in accordance with Section C - Performance Testing.

- (b) The Permittee is not required to test the ready mix hopper #2 or bag dump, the dry texture paint mixing and packing, bag dump or conveying, or the dry joint mixing and packing or bag dump by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facilities are in compliance. If testing is required by IDEM, compliance with the PM and PM₁₀ limits specified in Condition D.6.1 and D.6.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.6.5 Particulate Matter (PM)

Pursuant to OP 45-07-93-0516, OP 45-07-93-0517 and OP 45-07-93-0518, issued on December 19, 1989, the baghouses for PM control shall be in operation at all times when the associated facilities are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.6.6 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhausts J-1, J-2, J-3, J-4, J-5, J-6, J-7 and J-8 shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.6.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the joint treatment processes, at least once weekly when the associated facilities are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 2.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.6.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the joint treatment processes. All defective bags shall be replaced.

D.6.9 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.6.10 Record Keeping Requirements

- (a) To document compliance with Condition D.6.6, the Permittee shall maintain records of daily visible emission notations of the stack exhausts J-1, J-2, J-3, J-4, J-5, J-6, J-7 and J-8.
- (b) To document compliance with Condition D.6.7, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.6.8, the Permittee shall maintain records of the results of the inspections required under Condition D.6.8.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.7

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

A Franklin Fiber process, consisting of the following equipment:

- (a) Two (2) wet mixing tanks, with a combined maximum throughput of 1535 pounds per hour, with particulate matter emissions controlled by moisture content, and exhausting inside the building.
- (b) One (1) reactor chamber using boiler steam, with particulate matter emissions controlled by moisture content, and exhausting inside the building.
- (c) One (1) filter using boiler heat to start drying process, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (d) One (1) lump breaker and natural gas-fired dryer, with a heat input capacity of 3 MMBtu per hour and maximum throughput of 1535 pounds per hour, with particulate matter emissions controlled by two (2) baghouses, identified as MBH-6 and MBH-7, and exhausting through one (1) stack, identified as M-6.
- (e) One (1) drop out box, with a maximum throughput of 8 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-6, and exhausting through one (1) stack, identified as M-6.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.7.1 Lake County PM₁₀ Emission Requirements [326 IAC 6-1-10.1]

Pursuant to 326 IAC 6-1-10.1 (Lake County PM₁₀ Emission Requirements), the PM₁₀ emissions from the Franklin Fiber process exhausting to stack M-6 shall each not exceed 0.011 grains per dry standard cubic foot and 0.313 pounds per hour.

D.7.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.7.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test the Franklin Fiber process by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facilities are in compliance. If testing is required by IDEM, compliance with the PM₁₀ limit specified in Condition D.7.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.7.4 Particulate Matter (PM)

Pursuant to OP 45-07-93-0512, issued on December 19, 1989, the baghouse for PM control shall be in operation at all times when the associated facilities are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.7.5 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhaust M-6 shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.7.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the Franklin Fiber process, at least once weekly when the associated facilities are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 2.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.7.7 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the Franklin Fiber process. All defective bags shall be replaced.

D.7.8 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.7.9 Record Keeping Requirements

- (a) To document compliance with Condition D.7.5, the Permittee shall maintain records of daily visible emission notations of the stack exhausts M-6.
- (b) To document compliance with Condition D.7.6, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.7.7, the Permittee shall maintain records of the results of the inspections required under Condition D.7.7.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.8

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

The following insignificant activities:

- (a) One (1) natural gas-fired boiler, with a heat input capacity of 8.4 million Btu per hour, with emissions uncontrolled, and exhausting through one (1) stack, identified as M-3.
- (b) One (1) natural gas-fired boiler, with a heat input capacity of 3.4 million Btu per hour, with emissions uncontrolled, and exhausting through one (1) stack, identified as M-4.
- (c) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (d) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (e) One (1) landplaster baler, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.
- (f) A polypropylene bag grinding process, consisting of the following equipment:
 - (1) A bag storage and conveying system, with two (2) bins and two (2) screw conveyors, with negligible emissions, and exhausting inside the building.
 - (2) Two (2) polypropylene bags grinding machines, each with a maximum throughput of 20 pounds per hour, with particulate matter emissions controlled by partial enclosure, and exhausted to the ground polypropylene bins.
 - (3) Three (3) ground polypropylene bins with screens, with a combined maximum capacity of 360 cubic feet, with particulate matter emissions uncontrolled, and exhausting inside the building.
 - (4) One (1) weigh feeder, with a maximum throughput of 47 pounds per hour, with particulate matter emissions uncontrolled, and exhausting inside the building.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.8.1 Particulate Matter (PM) [326 IAC 6-2-2]

Pursuant to 326 IAC 6-2-2 (Particulate Matter Emission Limitations for Sources of Indirect Heating, the PM emissions from the boilers shall be limited as follows:

- (a) PM emissions from the 3.4 MMBtu per hour heat input boiler shall be limited to 0.6 pounds per MMBtu heat input.
- (b) PM emissions from the 8.4 MMBtu per hour heat input boiler shall be limited to 0.59 pounds per MMBtu heat input.

These limitations are based on the following equation:

$$P_t = \frac{0.87}{Q^{0.16}} \quad \text{where } P_t = \text{allowable limit in lb/MMBtu} \\ Q = \text{total source operating capacity in MMBtu/hr}$$

D.8.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the owner or operator shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.8.3 Nonattainment Area Particulate Limitation [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), the PM emissions from the welding equipment, landplaster baler, and polypropylene bag grinding process shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

Compliance Determination Requirement

D.8.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facilities are in compliance. If testing is required by IDEM, compliance with the PM limits specified in Conditions D.8.1 and D.8.3 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: United States Gypsum Company
Source Address: 3501 Canal Street, East Chicago, Indiana 46312
Mailing Address: 3501 Canal Street, East Chicago, Indiana 46312
Part 70 Permit No.: T089-7532-00333

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**PART 70 OPERATING PERMIT
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: United States Gypsum Company
Source Address: 3501 Canal Street, East Chicago, Indiana 46312
Mailing Address: 3501 Canal Street, East Chicago, Indiana 46312
Part 70 Permit No.: T089-7532-00333

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2	
9	1. This is an emergency as defined in 326 IAC 2-7-1(12) C The Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and C The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
9	2. This is a deviation, reportable per 326 IAC 2-7-5(3)(c) C The Permittee must submit notice in writing within ten (10) calendar days

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency/Deviation:
Describe the cause of the Emergency/Deviation:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency/deviation:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT
SEMI-ANNUAL COMPLIANCE MONITORING REPORT**

Source Name: United States Gypsum Company
Source Address: 3501 Canal Street, East Chicago, Indiana 46312
Mailing Address: 3501 Canal Street, East Chicago, Indiana 46312
Part 70 Permit No.: T089-7532-00333

Months: _____ **to** _____ **Year:** _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted semi-annually. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (e.g. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____
Title/Position: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for a Part 70 Operating Permit

Source Background and Description

Source Name: United States Gypsum Company
Source Location: 3501 Canal Street, East Chicago, Indiana 46312
County: Lake
SIC Code: 3275
Operation Permit No.: T089-7532-00333
Permit Reviewer: Bryan Sheets

The Office of Air Management (OAM) has reviewed a Part 70 permit application from United States Gypsum Company relating to the operation of a gypsum wallboard, franklin fiber, joint compound and dry paint manufacturing lines.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

Raw material handling and storage, consisting of the following equipment:

- (1) One (1) pneumatic rail car unloading facility, with a maximum throughput of 24,000 pounds per hour, used for limestone, hydrocal, and mica, with particulate matter emissions controlled by one (1) baghouse, identified as JVH-10, and exhausting through one (1) stack, identified as J-10.
- (2) One (1) pneumatic truck unloading facility, with a maximum throughput of 22,000 pounds per hour, used for perlite, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-16, and exhausting through one (1) stack, identified as J-16.
- (3) One (1) limestone storage silo, with a maximum capacity of 330 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-11, and exhausting through one (1) stack, identified as J-11.
- (4) One (1) hydrocal storage silo, with a maximum capacity of 140 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-12, and exhausting through one (1) stack, identified as J-12.
- (5) One (1) mica storage silo, with a maximum capacity of 60 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-13, and exhausting through one (1) stack, identified as J-13.
- (6) One (1) perlite storage silo, with a maximum capacity of 250 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-16, and exhausting through one (1) stack, identified as J-16.
- (7) One (1) enclosed rock shed, with a maximum capacity of 125,000 tons, with a transfer vacuum receiver, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-20, and exhausting inside the shed.
- (8) One (1) synthetic gypsum stockpile, identified as F1, with fugitive particulate matter emissions exhausting directly to the atmosphere.

A landplaster production process, consisting of the following equipment:

- (1) A conveying system, consisting of belt and screw conveyors, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or directly to the atmosphere. Some portions of the conveyor system are controlled by either of two (2) baghouses, identified as MBH-8 and MBH-10, and exhausting through either of two (2) stacks, identified as M-7 and M-13, respectively.
- (2) One (1) dryer mill bin #1, with a maximum capacity of 60 tons and a throughput of 40 tons per hour, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.
- (3) One (1) dryer mill bin #2, with a maximum capacity of 60 tons and a throughput of 40 tons per hour, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.
- (4) One (1) dryer mill #1, with a maximum throughput of 35 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-8, and exhausting through one (1) stack, identified as M-7.
- (5) One (1) natural gas-fired burner for the dryer mill #1, with a heat input capacity of 20 MMBtu per hour, and exhausting through one (1) stack, identified as M-8.
- (6) One (1) screening station #1, with a maximum throughput of 35 tons per hour, with particulate matter emissions controlled by total enclosure, and exhausting to dryer mill #1.
- (7) One (1) dryer mill #2, with a maximum throughput of 35 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-10, and exhausting through one (1) stack, identified as M-13.
- (8) One (1) natural gas-fired burner for the dryer mill #2, with a heat input capacity of 20 MMBtu per hour, and exhausting through one (1) stack, identified as M-12.
- (9) One (1) screening station #2, with a maximum throughput of 35 tons per hour, with particulate matter emissions controlled by total enclosure, and exhausting to dryer mill #2.

A stucco production process, consisting of the following equipment:

- (1) One (1) kettle feed bin #2, with a maximum capacity of 60 tons, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-18, and exhausting through one (1) stack, identified as M-18.
- (2) One (1) calcining kettle #2, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-11, and exhausting through one (1) stack, identified as M-16.
- (3) Six (6) natural-gas fired burners for the calcining kettle #2, each with a heat input capacity of 5 MMBtu per hour, and exhausting through one (1) stack, identified as M-15.
- (4) One (1) kettle feed bin #3, with a maximum capacity of 60 tons, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-13, and exhausting through one (1) stack, identified as M-18.

- (5) One (1) calcining kettle #3, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-1, and exhausting through one (1) stack, identified as M-1.
- (6) One (1) natural-gas fired burner for the calcining kettle #3, with a heat input capacity of 20 MMBtu per hour, and exhausting through one (1) stack, identified as M-6.
- (7) One (1) hot pit #3, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-3, and exhausting through one (1) stack, identified as M-3.
- (8) A conveying system, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or directly to the atmosphere. Some portions of the conveyor system are controlled by one (1) baghouse, identified as MBH-13, and exhausting through one (1) stack, identified as M-18.

An existing gypsum wallboard manufacturing line, consisting of the following equipment:

- (1) An elevating and conveying system, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or directly to the atmosphere. Some portions of the conveyor system are controlled by one (1) baghouse, identified as MBH-2, and exhausting through one (1) stack, identified as M-2.
- (2) One (1) stucco screen, with a maximum throughput of 32 tons per hour, with particulate matter controlled by one (1) bin vent, identified as MBH-9, and exhausting through one (1) stack, identified as M-9.
- (3) Two (2) stucco storage bins, with particulate matter emissions controlled by one (1) bin vent, identified as MBH-9, and exhausting through one (1) stack, identified as M-9.
- (4) One (1) paper fiber mill with cyclone separator, with a maximum throughput of 200 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-1, and exhausting through one (1) stack, identified as B-1.
- (5) Four (4) dry additive storage bins with hopper feeders, each with a maximum capacity of 5 tons, with all particulate matter emissions controlled by one (1) baghouse, identified as BB-1, and all exhausting to one (1) stack, identified as BB-1.
- (6) One (1) manually fed dry additive hopper feeder, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (7) One (1) HRA mill additive bin with hopper feeder, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-7, and exhausting inside the building.
- (8) One (1) manually fed HRA mill hopper feeder, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (9) One (1) HRA ball mill, with a maximum throughput of 1620 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-8, and exhausting inside the building.

- (10) One (1) dry mixing screw conveyor, with a maximum throughput of 60 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-1, and exhausting through one (1) stack, identified as B-1.
- (11) One (1) wet mixer, with a maximum throughput of 80 tons per hour, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (12) Three (3) wallboard drying kiln burners, each with a heat input capacity of 22.7 million Btu per hour, with emissions uncontrolled, and exhausting in the kiln.
- (13) One (1) wallboard drying kiln, with a maximum throughput of 32,400 square feet of wallboard per hour, with emissions uncontrolled, and exhausting through three (3) stacks, identified as B-4, B-5 and B-6.
- (14) One (1) end saw, with a maximum throughput of 32,400 square feet of wallboard per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-2, and exhausting through one (1) stack, identified as B-2.

A new gypsum wallboard manufacturing line, which will replace the existing gypsum wallboard line, consisting of the following equipment:

- (1) One (1) stucco storage bin, with a maximum capacity of 1200 tons, with particulate matter controlled by one (1) bin vent, identified as BBH-11, and exhausting through one (1) stack, identified as B-11.
- (2) One (1) stucco surge bin with hopper, with a maximum capacity of 2 tons, with particulate matter controlled by one (1) baghouse, identified as BBH-13, and exhausting through one (1) stack, identified as B-13.
- (3) One (1) landplaster feed bin, with a maximum capacity of 5 tons, with particulate matter emissions controlled by one (1) bin vent, identified as BBH-12, and exhausting through one (1) stack, identified as B-12.
- (4) One (1) HRA mill additive bin, with a maximum capacity of 6 cubic feet, with particulate matter controlled by one (1) bin vent, identified as MBH -19, and exhausting inside the building.
- (5) One (1) HRA ball mill, with a maximum throughput of 2400 pounds per hour, with particulate matter controlled by one (1) baghouse, identified as BBH-14, and exhausting through one (1) stack, identified as B-18.
- (6) One (1) HRA bin, with a maximum capacity of 3 tons, with particulate matter controlled by one (1) baghouse, identified as BBH-13, and exhausting through one (1) stack, identified as B-13.
- (7) Two (2) additive storage bin vacuum receivers, each with particulate matter emissions controlled by one (1) baghouse, identified as BVH-1 and BVH-2, and each exhausting to one (1) stack, identified as B-14 and B-15, respectively.
- (8) Two (2) additive refill vacuum receivers, each with particulate matter emissions controlled by one (1) baghouse, identified as BVH-3 and BVH-4, and each exhausting to one (1) stack, identified as B-16 and B-17, respectively.

- (9) Two (2) additive bulk storage bins, each with a maximum capacity of 75 tons, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-13, and all exhausting to one (1) stack, identified as B-13.
- (10) Two (2) additive surge storage bins, each with a maximum capacity of 5 tons, with particulate matter emissions controlled by one (1) baghouse, identified as BBH-13, and all exhausting to one (1) stack, identified as B-13.
- (11) One (1) glass fiber additive bin, with a maximum capacity of 0.5 ton, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (12) One (1) paper fiber mill with cyclone separator, with a maximum throughput of 200 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH13, and exhausting through one (1) stack, identified as B13.
- (13) One (1) mixing screw conveyor, with a maximum throughput of 60 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH13, and exhausting through one (1) stack, identified as B13.
- (14) One (1) natural gas-fired gauging water heater, with a heat input capacity of 3.5 MMBtu per hour, and exhausting through one (1) stack, identified as B-19.
- (15) One (1) wet mixer, with particulate matter emissions controlled by one (1) baghouse, identified as BBH13, and exhausting through one (1) stack, identified as B13.
- (16) One (1) wet zone kiln natural gas-fired burner, with a heat input capacity of 66 MMBtu per hour, and exhausting through one (1) stack, identified as B-20.
- (17) One (1) dry zone kiln natural gas-fired burner, with a heat input capacity of 66 MMBtu per hour, and exhausting through one (1) stack, identified as B-21.
- (18) One (1) wet end seal natural gas-fired burner, with a heat input capacity of 1.5 MMBtu per hour, and exhausting through one (1) stack, identified as B-22.
- (19) One (1) dry end seal natural gas-fired burner, with a heat input capacity of 1.5 MMBtu per hour, and exhausting through one (1) stack, identified as B-23.
- (20) One (1) wallboard drying kiln, with a maximum throughput of 32,400 square feet of wallboard per hour, and exhausting through one (1) main stack, identified as B24. A portion of the exhaust is sent through a heat exchanger which exhausts through one (1) stack, identified as B27.
- (21) One (1) end saw, with a maximum throughput of 32,400 square feet of wallboard per hour, with particulate matter emissions controlled by one (1) baghouse, identified as BBH15, and exhausting through one (1) stack, identified as B25.
- (22) One (1) waste reclaim shredder, with a maximum throughput of 50 tons per hour, with particulate matter controlled by one (1) baghouse, identified as WRBH-1, and exhausting through one (1) stack, identified as WR-1.

A joint treatment process, consisting of the following equipment:

- (1) A pneumatic conveying system from the bulk storage bins to the scale hoppers, with particulate matter emissions controlled by three (3) baghouses, identified as JBH-11, JBH-12 and JBH-13, and exhausting through three (3) stacks, identified as J-11, J-12 and J-13, respectively.

- (2) Four (4) scale hoppers, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (3) A ready-mix line, consisting of the following equipment:
 - (a) Two (2) holding hoppers, each with a maximum throughput of 5 tons per hour, each with particulate matter emissions controlled by one (1) baghouse, identified as JBH-1 and JBH-2, and each exhausting through one (1) stack, identified as J-1 and J-2, respectively.
 - (b) One (1) dry additives bag dump, with a maximum throughput of 1176 pounds per hour, with particulate matter controlled by three (3) baghouses, identified as JBH1, JBH2 and JVH3, and exhausting through three (3) stacks, identified as J1, J2 and J3, respectively.
 - (c) Two (2) wet mixers, each with a maximum throughput of 7.25 tons per hour, and exhausting inside the building.
- (4) A dry joint compound line, consisting of the following equipment:
 - (a) One (1) dry additives bag dump, with a maximum throughput of 600 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JVH8, and exhausting through one (1) stack, identified as J8.
 - (b) One (1) reclaim screw conveyor, with a maximum throughput of 1,184 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH7, and exhausting through one (1) stack, identified as J7.
 - (c) One (1) dry joint mixer, with a maximum throughput of 5,678 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH7, and exhausting through one (1) stack, identified as J7.
 - (d) One (1) packing machine, with a maximum throughput of 5,100 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH14, and exhausting inside the building.
- (5) A dry texture paint line, consisting of the following equipment:
 - (a) One (1) dry additives bag dump, with a maximum throughput of 390 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JVH-6, and exhausting through one (1) stack, identified as J-6.
 - (b) One (1) reclaim screw conveyor, with maximum throughput of 502 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-4, and exhausting through one (1) stack, identified as J-4.
 - (c) One (1) dry texture paint mixer, with a maximum throughput of 4650 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-4, and exhausting through one (1) stack, identified as J-4.
 - (d) One (1) packing machine, with a maximum throughput of 4650 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-4, and exhausting through one (1) stack, identified as J-4.

- (e) One (1) dry paint weigh station, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-15, and exhausting through one (1) stack, identified as JV-19.

A Franklin Fiber process, consisting of the following equipment:

- (1) Two (2) wet mixing tanks, with a combined maximum throughput of 1535 pounds per hour, with particulate matter emissions controlled by moisture content, and exhausting inside the building.
- (2) One (1) reactor chamber using boiler steam, with particulate matter emissions controlled by moisture content, and exhausting inside the building.
- (3) One (1) filter using boiler heat to start drying process, with particulate matter emissions uncontrolled, and exhausting inside the building.
- (4) One (1) lump breaker and natural gas-fired dryer, with a heat input capacity of 3 MMBtu per hour and maximum throughput of 1535 pounds per hour, with particulate matter emissions controlled by two (2) baghouses, identified as MBH-6 and MBH-7, and exhausting through one (1) stacks, identified as M6.
- (5) One (1) drop out box, with a maximum throughput of 8 pounds per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-6, and exhausting through one (1) stack, identified as M-6.

Unpermitted Emission Units and Pollution Control Equipment Requiring ENSR

There are no unpermitted facilities operating at this source during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (1) Space heaters, process heaters, or boilers using the following fuels:
 - (A) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.
 - (i) One (1) natural gas-fired boiler, with a heat input capacity of 8.4 million Btu per hour, with emissions uncontrolled, and exhausting through one (1) stack, identified as M-3.
 - (ii) One (1) natural gas-fired boiler, with a heat input capacity of 3.4 million Btu per hour, with emissions uncontrolled, and exhausting through one (1) stack, identified as M-4.
 - (B) Propane or liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.
- (2) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (3) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

- (4) The following VOC and HAP storage containers:
 - (A) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (5) Equipment used exclusively for the following:
 - (A) Packaging lubricants or greases.
 - (B) Filling drums, pails or other packaging containers with lubricating oils, waxes, and greases.
- (6) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings.
- (7) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (8) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (9) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (10) Activities associated with the transportation and treatment of sanitary sewage, provided discharge to the treatment plant is under the control of the owner/operator, that is, an on-site sewage treatment facility.
- (11) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (12) Heat exchanger cleaning and repair.
- (13) Trimmers that do not produce fugitive emissions and that are equipped with a dust collection or trim material recovery device such as a bag filter or cyclone.
- (14) Paved and unpaved roads and parking lots with public access.
- (15) Asbestos abatement projects regulated by 326 IAC 14-10.
- (16) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (17) On-site fire and emergency response training approved by the department.
- (18) Emergency generators as follows:
 - (A) Diesel generators not exceeding 1600 horsepower.
- (19) Other emergency equipment as follows:
 - (A) Stationary fire pumps.
- (20) Purge double block and bleed valves.
- (21) A laboratory as defined in 326 IAC 2-7(20)(c).

- (22) Other categories with emissions below insignificant thresholds:
- (A) A polypropylene bag grinding process, consisting of the following equipment:
 - (i) A bag storage and conveying system, with two (2) bins and two (2) screw conveyors, with negligible emissions, and exhausting inside the building.
 - (ii) Two (2) polypropylene bags grinding machines, each with a maximum throughput of 20 pounds per hour, with particulate matter emissions controlled by partial enclosure, and exhausted to the ground polystyrene bins.
 - (iii) Three (3) ground polypropylene bins with screens, with a combined maximum capacity of 360 cubic feet, with particulate matter emissions uncontrolled, and exhausting inside the building.
 - (iv) One (1) weigh feeder, with a maximum throughput of 47 pounds per hour, with particulate matter emissions uncontrolled, and exhausting inside the building.
 - (B) One (1) landplaster baler, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.
 - (C) One (1) gasoline and one (1) diesel fuel storage tank, identified as F3 and F4, with capacities of 1060 and 500 gallons, respectively.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (1) Operation Permits OP 45-07-93-0506 and OP 45-07-93-0508 through OP 45-93-0520, issued on December 19, 1989;
- (2) Registration CP 089-2021-00333, issued on July 11, 1991;
- (3) Registration CP 089-3560-00333, issued on April 4, 1994;
- (4) Exemption CP 089-4408-00333, issued on March 31, 1995;
- (5) Registration CP 089-7755-00333, issued on February 19, 1997;
- (6) Amendment A 089-8366-00333, issued on April 4, 1997; and
- (7) Construction Permit CP 089-8567-00333, issued on January 8, 1998.

All conditions from previous approvals were incorporated into this Part 70.

There were some minor changes made to some of the equipment permitted in CP 089-8567-00333. These changes include the following:

- (1) The existing 15 million Btu per hour burner for kettle #3 will be replaced with a 20 MMBtu per hour low NO_x burner.

- (2) The existing 37,500 scfm baghouse identified as MBH-1 will be replaced with a new baghouse with a flowrate of 5,579 scfm.
- (3) Kettle #2 does not have a hot pit as described in the permit. There will be no need for the pollution control equipment associated with the hot pit #2.
- (4) The HRA mill additive bin will require a bin vent, identified as MBH-19, at 500 scfm.
- (5) The transfer of gypsum dust from the end saws to the rock shed will require a baghouse, identified as MBH-20, at 2920 scfm.
- (6) The stucco storage silo bin vent, identified as BBH-11, will have the capacity increased to 4275 scfm.
- (7) The landplaster feed bin vent, identified as BBH-12, will have the capacity increased to 557 scfm.
- (8) The stucco and dry additives dust collector, identified as BBH-13, will have the capacity increased to 7571 scfm.
- (9) The refill vacuum receiver dust collector, identified as BVH-4, will have the capacity increased to 850 scfm.
- (10) A synthetic gypsum stockpile will be added.

These changes either reduce emissions or increase emissions at a level which would be exempt from permitting (for specific emissions calculations see Appendix A). If they would have been included in CP 089-8567-00333, the netting analysis would have been performed as follows:

Pollutant	PM	PM ₁₀	SO ₂	VOC	CO	NO _x
Proposed Modification (including updated flowrates)	37.2	37.2	0.28	1.57	30.0	23.4
Contemporaneous Increases (kettle #3 burner change)	0.47	0.47	0.02	0.10	3.48	0.46
Contemporaneous Decreases (including kettle #3 baghouse)	30.3	30.3				
New Net Emissions	7.37	7.37	0.3	1.67	33.5	23.9
Offset Significant Levels	25	15	40	25	100	25

These changes will be included in the Title V permit.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete Part 70 permit application for the purposes of this review was received on December 12, 1996. Additional information was received on October 22, 1998, December 28, 1998, and February 25, 1999.

A notice of completeness letter was mailed to the source on January 8, 1997.

Emission Calculations

See Appendix A of this document for detailed emissions calculations for PM compliance determinations.

Potential Emissions

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as "emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility."

Pollutant	Potential Emissions (tons/year)
PM	greater than 250
PM-10	greater than 250
SO ₂	less than 100
VOC	less than 25
CO	less than 100
NO _x	greater than 100, less than 250

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Potential Emissions (tons/year)
N/A	negligible
TOTAL	negligible

- (a) The potential emissions (as defined in 326 IAC 1-2-55) of PM₁₀ are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1996 OAM emission data.

Pollutant	Actual Emissions (tons/year)
PM	21.5
PM-10	10.3
SO ₂	0.16
VOC	0.86
CO	10.2
NO _x	49.2
HAPs	no data

Limited Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

	Limited Potential to Emit* (tons/year)						
Process/facility	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Raw Material Handling and Storage	6.24	6.24					
Landplaster Production	17.8	17.8	0.1	1.0	14.7	17.5	0.33
Stucco Production	12.2	12.2	0.1	1.3	19.5	23.2	0.43
Wallboard Production^	17.0	17.0	0.4	3.3	51.0	60.7	1.15
Joint Treatment Processes	3.77	3.77					
Franklin Fiber Process	1.75	1.75					
Total Emissions	58.8	58.8	0.6	5.6	85.2	101.4	1.91

* Assuming PM = PM10

^ Wallboard Production PTE is based on the new equipment.

County Attainment Status

The source is located in Lake County (East Chicago).

Pollutant	Status
PM-10	Moderate Nonattainment
SO ₂	Nonattainment for Primary Standard
Ozone	Severe Nonattainment
CO	Marginal Nonattainment
Lead	Attainment or Unclassifiable

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. A portion of Lake County, including East Chicago, has been designated as nonattainment for ozone.

Federal Rule Applicability

- (a) The dryer mill bins, dryer mills, screens, associated conveying and the gypsum board reclaim shredder equipment are subject to the New Source Performance Standard, 326 IAC 12 (40 CFR 60.670 through 60.676, Subpart OOO). This rule requires the particulate emissions from:
 - (1) the stack emissions be limited to 0.05 grams per dry standard cubic meter (g/dscm) and seven percent (7%) opacity; and
 - (2) the fugitive emissions be limited to ten percent (10%) opacity or less.
- (b) Calcining kettle #2 is subject to the New Source Performance Standard, 326 IAC 12 (40 CFR 60.730 through 60.737, Subpart UUU). This rule requires the particulate emissions from:
 - (1) the calciners be limited to 0.092 grams per dry standard cubic meter (g/dscm);
 - (2) the dryers be limited to 0.057 grams per dry standard cubic meter (g/dscm); and
 - (3) any affected facility be limited to ten percent (10%) opacity or less.
- (c) The dryer mill #2 is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.730, Subpart UUU), because it also grinds the gypsum, which makes it specifically exempted in 40 CFR 60.670(b). All other dryers are not subject to this subpart because they were constructed prior to the applicability date of April 23, 1986.
- (d) The gasoline and diesel fuel storage tanks are not subject to the requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR 60, Subparts K, Ka or Kb) because they have capacities less than 40,000 gallons.
- (e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR Part 61 and 63, applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than ten (10) tons per year of PM₁₀, NO_x and CO in Lake County. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 4-1 (Open Burning)

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period, as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions)

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

State Rule Applicability - Significant Facilities

326 IAC 2-3 (Emission Offset)

Pursuant to 326 IAC 2-3 (Emission Offset), this source is a major source. However, US Gypsum limited certain facilities in CP-089-8657-00333 to avoid going through an emission offset review for that project. Those facilities were limited as follows:

Stack	Process Operation	Outlet Grain Loading Limit (gr/dscf)
M-13	#2 Dryer Mill	0.010
M-16	#2 Kettle	0.010
M-17	#2 Hot Pit	0.010
M-18	Miscellaneous Conveying	0.008
B-11	Board Plant Stucco Storage Bin	0.008
B-12	HRA L.P. Receiving Bin	0.008
B-13	Stucco & Dry Additives Conveying	0.008
B-14	Starch Bulk Bin	0.008
B-15	Vermiculite Bulk Bin	0.008
B-16	Starch Surge Bin	0.008
B-17	Vermiculite Surge Bin	0.008
B-18	HRA Ball Mill	0.010
B-25	End Saw	0.008

Stack	Combustion Facilities	Natural Gas Throughput (million cubic feet/month)
M-12	Dryer Mill	14.6
B-20	Wet Zone Kiln Burner	96.3 total
B-21	Dry Zone Kiln Burner	
B-19	Gauging Water Heater	28.2 total
M-14	Six (6) Burners	
B-22	Drying Kiln Wet Zone Seal	
B-23	Drying Kiln Dry Zone Seal	
B-26	Paper Heater	

Pursuant to CP 089-8657-00333, issued on January 8, 1998, the kerfing saw, cut saw, and existing wallboard facilities must be removed from service prior to the operation of the new wallboard facilities. Compliance with these limits make 326 IAC 2-3 (Emission Offset) not applicable.

326 IAC 6-1 (Nonattainment Area Limitations)

Pursuant to 326 IAC 6-1 (Nonattainment Area Limitations), the PM emissions from the various facilities at U.S. Gypsum, excluding those listed below for 326 IAC 6-1-10.1, shall not exceed the following:

- (a) 0.01 grains per dry standard cubic foot for all gaseous fuel-fired steam generators.
- (b) 0.03 grains per dry standard cubic foot for all other facilities.

326 IAC 6-1-10.1 (Lake County PM₁₀ Emissions Limitations)

Pursuant to 326 IAC 6-1-10.1, PM₁₀ emissions from the following facilities shall be limited as stated:

Stack	Process Operation*	Outlet Grain Loading Limit (gr/dscf)	Emission Limit (lb/hr)
J-10	Railcar Unloading	0.010	0.070
J-11	Limestone Silo/Conveying	0.015	0.190
J-12	Hydrocal Silo/Conveying	0.015	0.190
J-12	Mica Silo/Conveying	0.015	0.190
J-12	Perlite Silo/Conveying	0.015	0.190
M-1	Kettle #3	0.012	3.210
M-2	Existing Stucco Elevating & Conveying	0.015	2.210
B-1	Paper Grinding, Dry Additives & Mixing Screw	0.020	2.230
B-2	End Saws	0.020	0.860
B-3	Kerfing Saw	0.020	0.260
NA	Panel Saw	0.020	0.140
M-6	Franklin Fiber Process	0.011	0.313
J-1	Ready-Mix Hopper #1	0.017	0.100
J-2	Ready-Mix Hopper #2	0.017	0.100
J-3	Ready-Mix Bag Dump	0.017	0.100
J-4	Dry Texture Paint Mixing & Packing	0.020	0.190
J-5	Dry Texture Bag Dump	0.010	0.100
J-6	Dry Texture Conveying	0.010	0.030
J-7	Dry Joint Mixing & Packing	0.020	0.340
J-8	Dry Joint Bag Dump/Conveying	0.010	0.020

* The panel saw and kerfing saw (stack B-3) have been removed from service. Therefore, these limits will not be included in the permit.

326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements)

The requirements of 326 IAC 6-1-11.1 does not apply to U.S. Gypsum's source in East Chicago because they do not have the potential to emit five (5) tons of fugitive PM and are not specifically listed as being a targeted source.

326 IAC 6-3 (Process Operations)

Since the facilities at U.S. Gypsum are limited by the nonattainment rules of 326 IAC 6-1 (Nonattainment Area Particulate Limitations), the requirements of 326 IAC 6-3 (Process Operations) do not apply.

State Rule Applicability - Insignificant Activities

326 IAC 6-2-2 (Particulate Emission Limitations for Source of Indirect Heating)

Pursuant to 326 IAC 6-2-2 (Particulate Emission Limitations for Source of Indirect Heating), PM emissions from the 3.4 MMBtu per hour and 8.4 MMBtu per hour boilers shall not exceed 0.6 and 0.59 lbs per MMBtu, respectively. These limits were determined by the following equation:

$$Pt = \frac{0.87}{Q^{0.16}}$$

where Pt = lbs per MMBtu heat input
Q = total source operating capacity

Pt shall not exceed 0.6 lbs/MMBtu for Q less than 10 MMBtu/hr.

326 IAC 6-1 (Nonattainment Area Limitations)

Pursuant to 326 IAC 6-1 (Nonattainment Area Limitations), the PM emissions from the polypropylene bag grinding process, welding, and LP baler shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

326 IAC 8-3 (Organic Solvent Degreasing Operations)

Pursuant to 326 IAC 8-3 (Organic Solvent Degreasing Operations), the degreasing stations at US Gypsum shall meet the requirements of 326 IAC 8-3-2.

326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)

The gasoline and diesel fuel storage tanks are not subject to the requirements of this rule because they have capacities less than 150,000 gallons.

326 IAC 8-4-6 (Gasoline Dispensing Facilities)

The gasoline dispensing facility at US Gypsum is not subject to the requirements of this rule because the monthly gasoline throughput is less than 10,000 gallons and the facility was in existence prior to July 1, 1989.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

1. The various processes at US Gypsum have applicable compliance monitoring conditions as specified below:
 - (a) Daily visible emissions notations of the baghouse exhaust stacks shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.
 - (b) The Permittee shall record the total static pressure drop across the baghouses, at least once daily when the associated facilities are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 2.0 to 6.0 inches of water or a range established during the latest stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

These monitoring conditions are necessary because the baghouses must operate properly to ensure compliance with 326 IAC 5-1 (Opacity Limitations), 326 IAC 6-1 (Nonattainment Area Particulate Limitations), 326 IAC 6-3 (Process Operations) and 326 IAC 2-7 (Part 70).

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants (HAPs) set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Part 70 Application Form GSD-08.

- (a) This source will emit levels of air toxics less than those which constitute a major source according to Section 112 of the 1990 Clean Air Act Amendments.

Conclusion

The operation of this gypsum wallboard and gypsum compounds manufacturing plant shall be subject to the conditions of the attached proposed **Part 70 Permit No. T089-7532-00333**.

Indiana Department of Environmental Management Office of Air Management

Addendum to the Technical Support Document for a Part 70 Operating Permit

Source Name: United States Gypsum Company
 Source Location: 301 Riley Road, East Chicago, Indiana 46312
 County: Lake
 SIC Code: 3275
 Operation Permit No.: T089-7532-00333
 Permit Reviewer: Bryan Sheets

On March 27, 1999, the Office of Air Management (OAM) had a notice published in The Times, East Chicago, Indiana, and the Post Tribune, Gary, Indiana stating that United States Gypsum Company (USG) had applied for a Part 70 Operating Permit to operate a stationary gypsum wallboard and gypsum products manufacturing plant. The notice also stated that OAM proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Upon further review, the OAM has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table Of Contents has been modified to reflect these changes.

1. To clarify that the plant is not located in the carbon monoxide nonattainment area of Lake County, the description of the source in Condition A.1 has been updated on page 7 of 69 of the final permit.
2. To clarify that the bag grinding operation only includes polypropylene bags, the description of equipment in Section A.3(f)(2) has been updated as follows on page 14 of 69 of the final permit:
 - (2) Two (2) polypropylene bag grinding machines, each with a maximum throughput of 20 pounds per hour, with particulate matter emissions controlled by partial enclosure, and exhausted to the ground ~~polystyrene~~ **polypropylene** bins.
3. To clarify that the opacity from USG should be consistent with those sources located in Lake County, Condition C.3(a) has been updated as follows on page 27 of 69 of the final permit:
 - (a) Opacity shall not exceed an average of ~~forty~~ **twenty** percent (~~40%~~) (**20%**) in any one (1) six (6) minute averaging period, as determined in 326 IAC 5-1-4.
4. To clarify the equipment and stacks which should be tested, Condition D.3.6(a) has been updated as follows on page 44 of 69 of the final permit:
 - (a) Pursuant to CP 089-8657-00333, issued on January 8, 1998, the Permittee shall perform compliance testing for PM from kettle #2 exhausting to stack ~~M-13~~ **M-16** and kettle feed bins exhausting to stack M-18 within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. The tests shall be performed in accordance with Section C - Performance Testing and 40 CFR 60.736.

5. To clarify what monitoring requirements must have accompanied record keeping, Condition D.3.12(a), (b) and (c) has been updated as follows on page 46 of 69 of the final permit:
 - (a) To document compliance with Condition ~~D.3.7~~ **D.3.8**, the Permittee shall maintain records of daily visible emission notations of the stack exhausts M-1, M-3, M-16 and M-18.
 - (b) To document compliance with Condition ~~D.3.8~~ **D.3.9**, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
 - (c) To document compliance with Condition ~~D.3.9~~ **D.3.10**, the Permittee shall maintain records of the results of the inspections required under Condition ~~D.3.9~~ **D.3.10**.
6. To clarify that the HRA mill additive bin and HRA ball mill do not exhaust to stacks, Condition D.4.7(a) has been updated as follows on page 49 of 69 of the final permit:
 - (a) Daily visible emission notations of the stack exhausts M-2, M-9, B-1, B-2, B-4, B-5, B-6, ~~B-7, B-8~~ and BB-1 shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
7. To clarify that the HRA mill additive bin and HRA ball mill do not exhaust to stacks, Condition D.4.11(a) has been updated as follows on page 50 of 69 of the final permit:
 - (a) To document compliance with Condition D.4.7, the Permittee shall maintain records of daily visible emission notations of the stack exhausts M-2, M-9, B-1, B-2, B-4, B-5, B-6, ~~B-7, B-8~~ and BB-1.
8. To make the description of equipment consistent with that listed at the beginning of the section, Condition D.5.1(b), (c) and (f) have been updated as follows on pages 52 and 53 of 69 of the final permit:

- (b) PM emissions from the ~~HRA L.P.~~ **landplaster** feed bin exhausting to stack B-12 shall not exceed 0.008 grains per dry standard cubic foot.
 - (c) PM emissions from the HRA mill ~~feed~~ **additive** bin exhausting inside the building shall not exceed 0.010 grains per dry standard cubic foot.
 - (f) PM emissions from the ~~dry additive bulk~~ **additive storage bin vacuum receivers** and ~~surge bins~~ **additive refill vacuum receivers** exhausting to stacks B-14, B-15, B-16 and B-17 shall not exceed 0.008 grains per dry standard cubic foot.
9. To make the description of equipment consistent with that listed at the beginning of the section, Condition D.5.2(b), (c), (f) and (i) have been updated as follows on page 53 of 69 of the final permit:
- (b) PM emissions from the ~~HRA L.P.~~ **landplaster** feed bin exhausting to stack B-12 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
 - (c) PM emissions from the HRA mill ~~feed~~ **additive** bin exhausting inside the building shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
 - (f) PM emissions from the ~~dry additive bulk~~ **additive storage bin vacuum receivers** and ~~surge bins~~ **additive refill vacuum receivers** exhausting to stacks B-14, B-15, B-16 and B-17 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
 - (i) PM emissions from the natural gas-fired **gauging** water heater exhausting to stack B-19 shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf).
10. To clarify that a stack was inadvertently excluded from visible emissions notations, Condition D.5.7(a) has been updated as follows on page 54 of 69 of the final permit:
- (a) Daily visible emission notations of the stack exhausts B-11, ~~B-12, B-13, B-14, B-15, B-16, B-17,~~ **through B-18, and B-25 and WR-1** shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
11. To clarify that a stack was inadvertently excluded from the record keeping requirements, Condition D.5.11(a) has been updated as follows on page 55 of 69 of the final permit:
- (a) To document compliance with Condition D.5.7, the Permittee shall maintain records of daily visible emission notations of the stack exhausts B-11 through B-18, ~~and B-25 and~~ **WR-1.**
12. To make the description of equipment consistent with that listed at the beginning of the section, Condition D.6.1(b), (e) and (f) have been updated as follows on page 58 of 69 of the final permit:
- (b) PM₁₀ emissions from the dry texture paint ~~mixing mixer~~ and ~~packing packer~~ exhausting to stack J-4 shall not exceed 0.020 grains per dry standard cubic foot and 0.190 pounds per hour.
 - (e) PM₁₀ emissions from the dry joint mixing and ~~packing~~ **conveying** exhausting to stack J-7 shall not exceed 0.020 grains per dry standard cubic foot and 0.340 pounds per hour.
 - (f) PM₁₀ emissions from the dry joint bag dump ~~and conveying~~ exhausting to stack J-8 shall not exceed 0.010 grains per dry standard cubic foot and 0.020 pounds per hour.

13. To clarify which equipment must be tested, Condition D.6.4(b) has been updated as follows on page 59 of 69 of the final permit:
 - (b) The Permittee is not required to test the ready mix hopper ~~#1~~ **#2** or bag dump, the dry texture paint mixing and packing, bag dump or conveying, or the dry joint mixing and packing or bag dump by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facilities are in compliance. If testing is required by IDEM, compliance with the PM and PM₁₀ limits specified in Condition D.6.1 and D.6.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.
14. To make the description of equipment consistent with that listed at the beginning of the section, the first sentence of Condition D.6.7 has been updated as follows on page 59 of 69 of the final permit:

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the ~~dry joint~~ treatment processes, at least once weekly when the associated facilities are in operation.
15. To make the description of equipment consistent with that listed at the beginning of the section, Condition D.6.8 has been updated as follows on page 59 of 69 of the final permit:

An inspection shall be performed each calendar quarter of all bags controlling the ~~dry joint~~ treatment processes. All defective bags shall be replaced.
16. To clarify that only one stack is used for the lump breaker, item (d) in Section D.7's description of equipment has been updated as follows on page 61 of 69 of the final permit:
 - (d) One (1) lump breaker and natural gas-fired dryer, with a heat input capacity of 3 MMBtu per hour and maximum throughput of 1535 pounds per hour, with particulate matter emissions controlled by two (2) baghouses, identified as MBH-6 and MBH-7, and exhausting through one (1) stack~~s~~, identified as M-6.
17. To clarify that the bag grinding operation only includes polypropylene bags, item (f)(2) in Section D.8's description of equipment has been updated as follows on page 64 of 69 of the final permit:
 - (2) Two (2) polypropylene bags grinding machines, each with a maximum throughput of 20 pounds per hour, with particulate matter emissions controlled by partial enclosure, and exhausted to the ground ~~polystyrene~~ **polypropylene** bins.

	1.075 grains / 10 grains = 10.75% (10.75% grains / 100 grains)
	1.075 grains / 10 grains = 10.75% (10.75% grains / 100 grains)
2.0 grains	1.075 grains / 20 grains = 5.375% (5.375% grains / 100 grains)
3.0 grains	1.075 grains / 30 grains = 3.583% (3.583% grains / 100 grains)
4.0 grains	1.075 grains / 40 grains = 2.687% (2.687% grains / 100 grains)
5.0 grains	1.075 grains / 50 grains = 2.15% (2.15% grains / 100 grains)
6.0 grains	1.075 grains / 60 grains = 1.791% (1.791% grains / 100 grains)
7.0 grains	1.075 grains / 70 grains = 1.535% (1.535% grains / 100 grains)
8.0 grains	1.075 grains / 80 grains = 1.343% (1.343% grains / 100 grains)
9.0 grains	1.075 grains / 90 grains = 1.194% (1.194% grains / 100 grains)
10.0 grains	1.075 grains / 100 grains = 1.075% (1.075% grains / 100 grains)
11.0 grains	1.075 grains / 110 grains = 0.977% (0.977% grains / 100 grains)
12.0 grains	1.075 grains / 120 grains = 0.895% (0.895% grains / 100 grains)
13.0 grains	1.075 grains / 130 grains = 0.826% (0.826% grains / 100 grains)
14.0 grains	1.075 grains / 140 grains = 0.767% (0.767% grains / 100 grains)
15.0 grains	1.075 grains / 150 grains = 0.716% (0.716% grains / 100 grains)
16.0 grains	1.075 grains / 160 grains = 0.671% (0.671% grains / 100 grains)
17.0 grains	1.075 grains / 170 grains = 0.632% (0.632% grains / 100 grains)
18.0 grains	1.075 grains / 180 grains = 0.597% (0.597% grains / 100 grains)
19.0 grains	1.075 grains / 190 grains = 0.565% (0.565% grains / 100 grains)
20.0 grains	1.075 grains / 200 grains = 0.537% (0.537% grains / 100 grains)
21.0 grains	1.075 grains / 210 grains = 0.512% (0.512% grains / 100 grains)
22.0 grains	1.075 grains / 220 grains = 0.488% (0.488% grains / 100 grains)
23.0 grains	1.075 grains / 230 grains = 0.467% (0.467% grains / 100 grains)
24.0 grains	1.075 grains / 240 grains = 0.447% (0.447% grains / 100 grains)
25.0 grains	1.075 grains / 250 grains = 0.428% (0.428% grains / 100 grains)
26.0 grains	1.075 grains / 260 grains = 0.41% (0.41% grains / 100 grains)
27.0 grains	1.075 grains / 270 grains = 0.394% (0.394% grains / 100 grains)
28.0 grains	1.075 grains / 280 grains = 0.38% (0.38% grains / 100 grains)
29.0 grains	1.075 grains / 290 grains = 0.367% (0.367% grains / 100 grains)
30.0 grains	1.075 grains / 300 grains = 0.358% (0.358% grains / 100 grains)
31.0 grains	1.075 grains / 310 grains = 0.347% (0.347% grains / 100 grains)
32.0 grains	1.075 grains / 320 grains = 0.336% (0.336% grains / 100 grains)
33.0 grains	1.075 grains / 330 grains = 0.325% (0.325% grains / 100 grains)
34.0 grains	1.075 grains / 340 grains = 0.316% (0.316% grains / 100 grains)
35.0 grains	1.075 grains / 350 grains = 0.307% (0.307% grains / 100 grains)
36.0 grains	1.075 grains / 360 grains = 0.298% (0.298% grains / 100 grains)
37.0 grains	1.075 grains / 370 grains = 0.29% (0.29% grains / 100 grains)
38.0 grains	1.075 grains / 380 grains = 0.283% (0.283% grains / 100 grains)
39.0 grains	1.075 grains / 390 grains = 0.275% (0.275% grains / 100 grains)
40.0 grains	1.075 grains / 400 grains = 0.268% (0.268% grains / 100 grains)
41.0 grains	1.075 grains / 410 grains = 0.262% (0.262% grains / 100 grains)
42.0 grains	1.075 grains / 420 grains = 0.256% (0.256% grains / 100 grains)
43.0 grains	1.075 grains / 430 grains = 0.25% (0.25% grains / 100 grains)
44.0 grains	1.075 grains / 440 grains = 0.244% (0.244% grains / 100 grains)
45.0 grains	1.075 grains / 450 grains = 0.238% (0.238% grains / 100 grains)
46.0 grains	1.075 grains / 460 grains = 0.233% (0.233% grains / 100 grains)
47.0 grains	1.075 grains / 470 grains = 0.228% (0.228% grains / 100 grains)
48.0 grains	1.075 grains / 480 grains = 0.223% (0.223% grains / 100 grains)
49.0 grains	1.075 grains / 490 grains = 0.218% (0.218% grains / 100 grains)
50.0 grains	1.075 grains / 500 grains = 0.215% (0.215% grains / 100 grains)
51.0 grains	1.075 grains / 510 grains = 0.212% (0.212% grains / 100 grains)
52.0 grains	1.075 grains / 520 grains = 0.208% (0.208% grains / 100 grains)
53.0 grains	1.075 grains / 530 grains = 0.204% (0.204% grains / 100 grains)
54.0 grains	1.075 grains / 540 grains = 0.2% (0.2% grains / 100 grains)
55.0 grains	1.075 grains / 550 grains = 0.196% (0.196% grains / 100 grains)
56.0 grains	1.075 grains / 560 grains = 0.192% (0.192% grains / 100 grains)
57.0 grains	1.075 grains / 570 grains = 0.189% (0.189% grains / 100 grains)
58.0 grains	1.075 grains / 580 grains = 0.186% (0.186% grains / 100 grains)
59.0 grains	1.075 grains / 590 grains = 0.183% (0.183% grains / 100 grains)
60.0 grains	1.075 grains / 600 grains = 0.18% (0.18% grains / 100 grains)
61.0 grains	1.075 grains / 610 grains = 0.177% (0.177% grains / 100 grains)
62.0 grains	1.075 grains / 620 grains = 0.174% (0.174% grains / 100 grains)
63.0 grains	1.075 grains / 630 grains = 0.171% (0.171% grains / 100 grains)
64.0 grains	1.075 grains / 640 grains = 0.168% (0.168% grains / 100 grains)
65.0 grains	1.075 grains / 650 grains = 0.165% (0.165% grains / 100 grains)
66.0 grains	1.075 grains / 660 grains = 0.162% (0.162% grains / 100 grains)
67.0 grains	1.075 grains / 670 grains = 0.16% (0.16% grains / 100 grains)
68.0 grains	1.075 grains / 680 grains = 0.157% (0.157% grains / 100 grains)
69.0 grains	1.075 grains / 690 grains = 0.155% (0.155% grains / 100 grains)
70.0 grains	1.075 grains / 700 grains = 0.153% (0.153% grains / 100 grains)
71.0 grains	1.075 grains / 710 grains = 0.151% (0.151% grains / 100 grains)
72.0 grains	1.075 grains / 720 grains = 0.149% (0.149% grains / 100 grains)
73.0 grains	1.075 grains / 730 grains = 0.147% (0.147% grains / 100 grains)
74.0 grains	1.075 grains / 740 grains = 0.145% (0.145% grains /

Appendix A: Emissions Calculations
Natural Gas Combustion
MMBtu/hr <100

Company Name: United States Gypsum Company
Address City IN Zip: 3501 Canal Street, East Chicago, Indiana 46312
Title V No.: T089-7532-00333
Pit ID: 089-00333
Reviewer: Bryan Sheets
Date: 10/12/98

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

231.5

2027.9

Emission Factor in lb/MMCF	Pollutant					
	PM 7.6	PM10 7.6	SO2 0.6	NOx 100.0	VOC 5.5	CO 84.0
Potential Emission in tons/yr	7.7	7.7	0.6	101.4	5.6	85.2

Methodology

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1 and 1.4-2, SCC #1-02-006-02

Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Potential Emissions (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emissions Calculations
Natural Gas Combustion
MMBtu/hr <100

Company Name: United States Gypsum Company
Address City IN Zip: 3501 Canal Street, East Chicago, Indiana 46312
Title V No.: T089-7532-00333
Pit ID: 089-00333
Reviewer: Bryan Sheets
Date: 10/12/98

Potential Throughput
(MMCF/yr)

2027.9

HAP	Emission Factor (lbs/MMCF)	Potential Emissions (tons/yr)
2-Methylnaphthalene	2.40E-05	2.43E-05
3-Methylchloranthrene	1.80E-06	1.83E-06
7,12-Dimethylbenz(a)anthracene	1.60E-05	1.62E-05
Acenaphthene	1.80E-06	1.83E-06
Acenaphthylene	1.80E-06	1.83E-06
Anthracene	2.40E-06	2.43E-06
Arsenic Compounds	4.10E-04	4.16E-04
Benz(a)anthracene	1.80E-06	1.83E-06
Benzene	2.10E-03	2.13E-03
Benzo(a)pyrene	1.20E-06	1.22E-06
Benzo(b)fluoranthene	1.80E-06	1.83E-06
Benzo(g,h,i)perylene	1.20E-06	1.22E-06
Benzo(k)fluoranthene	1.80E-06	1.83E-06
Beryllium Compounds	1.20E-05	1.22E-05
Cadmium Compounds	1.10E-03	1.12E-03
Chromium Compounds	1.40E-03	1.42E-03
Chrysene	1.80E-06	1.83E-06
Cobalt Compounds	8.40E-05	8.52E-05
Dibenzo(a,h)anthracene	1.20E-06	1.22E-06
Dichlorobenzene	1.20E-03	1.22E-03
Fluoranthene	3.00E-06	3.04E-06
Fluorene	2.80E-06	2.84E-06
Formaldehyde	7.50E-02	7.60E-02
Hexane	1.80E+00	1.83E+00
Indeno(1,2,3-cd)pyrene	1.80E-06	1.83E-06
Manganese Compounds	3.80E-04	3.85E-04
Mercury Compounds	2.60E-04	2.64E-04
Naphthalene	6.10E-04	6.19E-04
Nickel Compounds	2.10E-03	2.13E-03
Phenanthrene	1.70E-05	1.72E-05
Pyrene	5.00E-06	5.07E-06
Selenium Compounds	2.40E-05	2.43E-05
Toluene	3.40E-03	3.45E-03
TOTAL		1.91E+00

Methodology

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-3 and 1.4-4.

Potential Throughput (MMCF/yr) = Total Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Potential Emissions (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF) / 2,000 lb/ton